DRIVE SYSTEMS srl

Servomotori brushless sincroni
tipo BLR / BLE 04
Coppia da 2.8Nm a 8Nm

Brushless synchronous servomotors
type BLR / BLE 04
Torque from 2.8Nm to 8Nm

L' Azienda

Presente sul mercato da oltre 30 anni nel settore delle applicazioni a velocità variabile, la Drive Systems S.r.l. fabbrica e commercializza un'ampia gamma di prodotti avanzati e di qualità che rispondono ai requisiti essenziali prescritti dalle direttive comunitarie europee e muniti pertanto della marcatura CE. Inoltre, al fine di garantire la qualità dei nostri prodotti, abbiamo ottenuto la certificazione ISO9001:2008.

Al fine di ottenere una gestione flessibile della propria ampia gamma di prodotti, la Drive Systems S.r.l. si serve di fornitori esterni all'azienda per l'approvvigionamento dei semilavorati che vengono prodotti secondo proprio progetto e concentra quindi la propria attività sul montaggio e collaudo dei motori per ottenere la qualità del prodotto finale.

I continui investimenti nella ricerca di soluzioni tecnologiche volte al miglioramento del prodotto e del rapporto qualità/prezzo, unita al Know-how di tecnici qualificati ed al continuo confronto di esperienze applicative nel campo dell'automazione industriale, fanno della nostra azienda il partner ideale nel panorama internazionale dei costruttori di motori.

La distribuzione dei prodotti sul territorio nazionale ed internazionale avviene sia direttamente sia indirettamente attraverso una rete di rappresentanti, specialisti nell'automazione, ai quali l'azienda fornisce il necessario supporto tecnico/commerciale per operare nelle rispettive aree di competenza.

Sebbene la maggior parte delle applicazioni può essere soddisfatta attraverso l'ampia gamma di prodotti standard, quando vi è la necessità di fornire un prodotto che risponda ad esigenze specifiche, la Drive Systems S.r.l. si fa avanti offrendo un servizio tecnico-informativo che permette, attraverso il contatto con il cliente, di individuare la soluzione che meglio risponde alla specifica richiesta.

Controlli interni verificano costantemente ogni stadio del processo di produzione, assicurando la migliore qualità al prodotto finale. Tutte le prove hanno lo scopo di garantire che il prodotto sia in grado di sostenere le condizioni di lavoro alle quali sarà sottoposto durante il suo normale utilizzo.

Le applicazioni nelle quali trovano più comunemente impiego i nostri motori sono: macchine per imballaggio e confezionamento, macchine per la lavorazione della carta, della plastica e del legno, macchine del settore alimentare, tessile e calzaturiero e più recentemente, nel settore delle macchine di precisione, in particolare robotica, ed in quello delle apparecchiature medicali

La flessibilità produttiva, la possibilità di ordinativi in lotti di piccole quantità, la formulazione di offerte in tempi brevi, la disponibilità alla realizzazione di esecuzioni speciali ed una continua attenzione all'evoluzione ed allo sviluppo delle nuove tecnologie, rendono la DRIVE SYSTEMS S.r.l. partner affidabile per la sua propensione a soddisfare le problematiche del cliente.

The company

In the market for over 30 years, in the field of variable speed appliances, DRIVE SYSTEMS S.r.l. manufactures and markets a wide range of advanced and quality products, corresponding to EEC directives and CE marked. Moreover, to ensure the quality of our products, we got ISO9001:2008 approval.

In order to get a flexible management of the wide range of products, Drive Systems S.r.l. uses external historic suppliers to purchase the semi-finished, manufactured on its own design, therefore its activity is for the most part addressed to the assembly of components and testing of the product to obtain the final excellent product's quality.

Constant investments in the search of technological solutions turned to the improvement of the products and quality/price relation, together with qualified technicians Know-how and to the continuous comparison with applied experiences in the field of industrial automation, make our Company the ideal partner in the international outline of motor's manufacturers.

Product distribution and marketing on the national and international territory is made directly and through representatives (sole agents), specialized in the automation appliances, supplied by the Company with all necessary technical and commercial support in order to act well in their own job areas.

Thus the majority of applications can be satisfied, when there is a need for a specific product design, Drive Systems S.r.l. comes to the fore by offering customers a technical service which ensures that the product, thanks to a joint-work with the customer, fully meets the required performances.

Internal inspections scrutinize every stage of production to ensure the best quality product. All tests are carried out in order to assure that the final product can stand working conditions to whom it is subject to during its standard application.

In terms of industry sectors, packaging and packing machines, plastic, paper and wood processing, food, textile and footwear equipments, precision equipments, particularly robotics are the most common applications for the company's products and, more recently, in the field of medical devices.

The high productive flexibility, the chance of small quantity batches orders, the very short term on making offers, the availability in realization of special executions on demand, and a constant attention to the evolution and growth of new technologies, make Drive Systems S.r.l. reliable partner for its disposition to meet customer's needs and requirements.

DRIVE SYSTEMS srl

MOTORI ELETTRICI PER L'AUTOMAZIONE
ELECTRIC MOTORS FOR AUTOMATION

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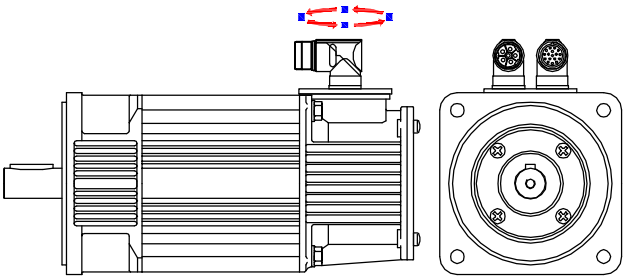
AJA EUROPE ISO 9001:2008

UKAS MANAGEMENT SYSTEMS 0273

DRIVE SYSTEMS srl 38 YEARS Of Quality Products

Brushless Servomotors 2.8Nm-8Nm

Caratteristiche generali
General features



Servomotori brushless sincroni a norme CEI ed IEC
Brushless synchronous servomotors CEI and IEC standards

Statore a stella trifase - rotore 8 poli con magneti NdFeB
Three-phase star stator - 8 poles rotor with NdFeB magnets

Grado di protezione IP54
Degree of protection IP54

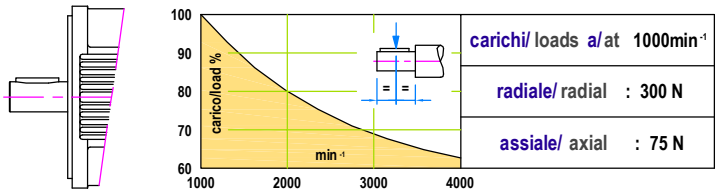
Isolamento classe F e H
Insulation F and H class

Metodo di raffreddamento IC0041
Cooling form IC0041

Retroazione da resolver 2 poli
Feedback from resolver 2 poles

Retroazione da encoder incrementale o assoluto, singolo o multigiro
Feedback from incremental or absolute encoder, single or multi turn

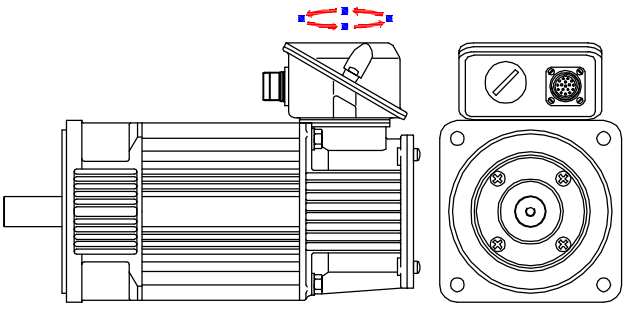
Albero con chiavetta
Shaft with key



Protezione termica PTC - soglia: 130°C
Thermal protection PTC - threshold: 130°C

Motore con connettori
Motor with connectors

Caratteristiche su richiesta
Optionals on request



Grado di protezione IP65
Degree of protection IP65

Freno interno di sicurezza
Internal safety brake

Albero senza chiavetta
Shaft without key

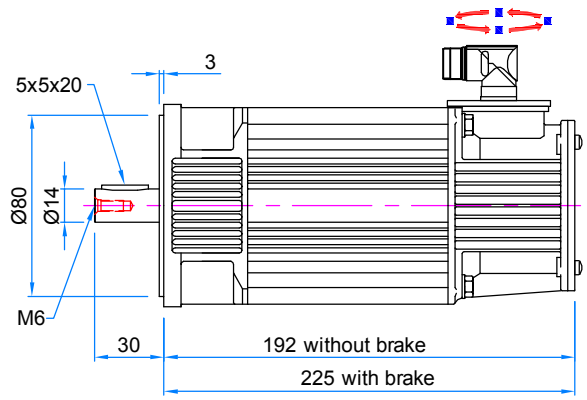
Motore con scatola morsetti
Motor with terminal box

Brushless servomotor BLR / BLE 04.3

2.8Nm

Type	symbols	units	BLR / BLE 04.3					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque (1)	Cn	Nm	2.8	2.8	2.8	2.8	2.8	2.8
Continuous stall current	In	A	1.5 rms	1.9 rms	3 rms	0.8 rms	1.1 rms	1.6 rms
Peak stall torque	Cp	Nm	7.6	7.6	7.6	7.6	7.6	7.6
Peak current	Ip	A	4 rms	5.2 rms	8.2 rms	2.2 rms	2.8 rms	4.4 rms
Torque constant	Kt	Nm/A	1.92 rms	1.5 rms	0.93 rms	3.5 rms	2.7 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175 rms	177 rms	170 rms	320 rms	325 rms	315 rms
Voltage constant	Ke	Vs/rad	1.11 rms	0.84 rms	0.54 rms	2.03 rms	1.55 rms	1 rms
Terminals resistance	Rm	Ohm	28	16	7	90	50	24
Terminals inductance	Lm	mH	40	23	10	130	76	34
Moment of inertia	J	mkgm²	0.1	0.1	0.1	0.1	0.1	0.1
Torque at 1500 rpm	C1	Nm	2.7	2.7	2.7	2.7	2.7	2.7
Power at 1500 rpm	P1	W	420	420	420	420	420	420
Current at 1500 rpm	I1	A	1.4 rms	1.8 rms	2.9 rms	0.8 rms	1 rms	1.6 rms
Torque at 2000 rpm	C2	Nm	--	2.6	2.6	--	2.6	2.6
Power at 2000 rpm	P2	W	--	540	540	--	540	540
Current at 2000 rpm	I2	A	--	1.7 rms	2.8 rms	--	0.9 rms	1.5 rms
Torque at 3000 rpm	C3	Nm	--	--	2.4	--	--	2.4
Power at 3000 rpm	P3	W	--	--	750	--	--	750
Current at 3000 rpm	I3	A	--	--	2.6 rms	--	--	1.4 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 2.7 kg



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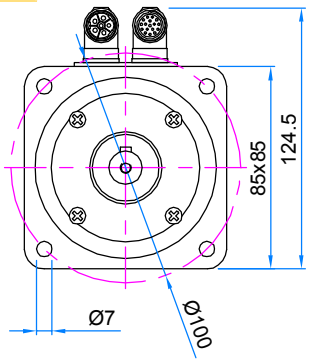

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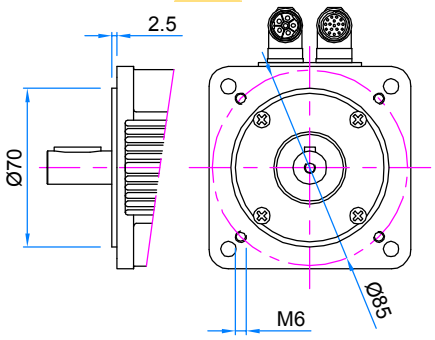
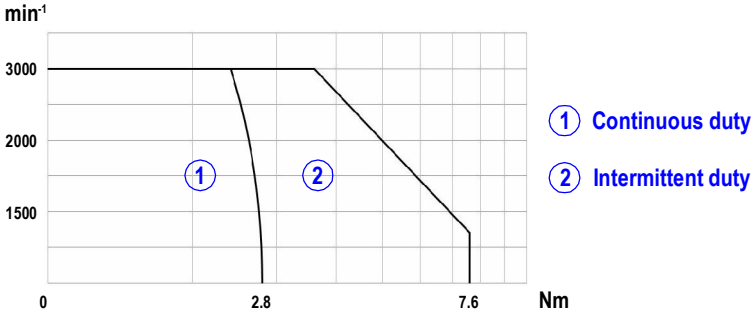




① Continuous duty

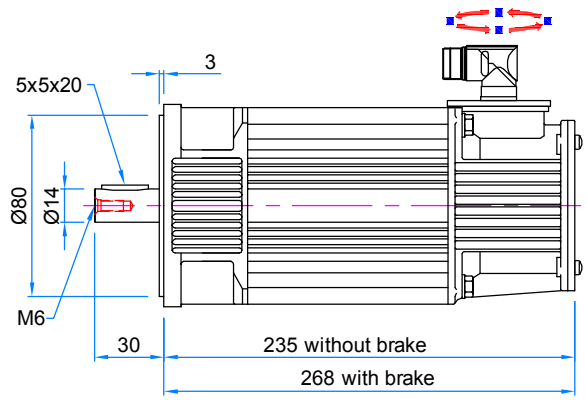
② Intermittent duty

Brushless servomotor BLR / BLE 04.5

5Nm

Type	symbols	units	BLR / BLE 04.5					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque (1)	Cn	Nm	5	5	5	5	5	5
Continuous stall current	In	A	2.6 rms	3.4 rms	5.4 rms	1.5 rms	1.9 rms	2.9 rms
Peak stall torque	Cp	Nm	12	12	12	12	12	12
Peak current	Ip	A	6.5 rms	8 rms	13 rms	3.5 rms	4.5 rms	7 rms
Torque constant	Kt	Nm/A	1.92 rms	1.5 rms	0.93 rms	3.5 rms	2.7 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175 rms	177 rms	170 rms	320 rms	325 rms	315 rms
Voltage constant	Ke	Vs/rad	1.11 rms	0.84 rms	0.54 rms	2.03 rms	1.55 rms	1 rms
Terminals resistance	Rm	Ohm	11	6	2.7	30	17	7.5
Terminals inductance	Lm	mH	22	13	5.5	52	30	13
Moment of inertia	J	mkgm²	0.29	0.29	0.29	0.29	0.29	0.29
Torque at 1500 rpm	C1	Nm	4.8	4.8	4.8	4.8	4.8	4.8
Power at 1500 rpm	P1	W	750	750	750	750	750	750
Current at 1500 rpm	I1	A	2.5 rms	3.2 rms	5.2 rms	1.4 rms	1.8 rms	2.8 rms
Torque at 2000 rpm	C2	Nm	--	4.6	4.6	--	4.6	4.6
Power at 2000 rpm	P2	W	--	960	960	--	960	960
Current at 2000 rpm	I2	A	--	3 rms	4.9 rms	--	1.7 rms	2.6 rms
Torque at 3000 rpm	C3	Nm	--	--	4.2	--	--	4.2
Power at 3000 rpm	P3	W	--	--	1300	--	--	1300
Current at 3000 rpm	I3	A	--	--	4.5 rms	--	--	2.4 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 4 kg



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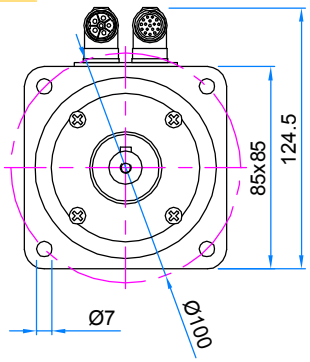

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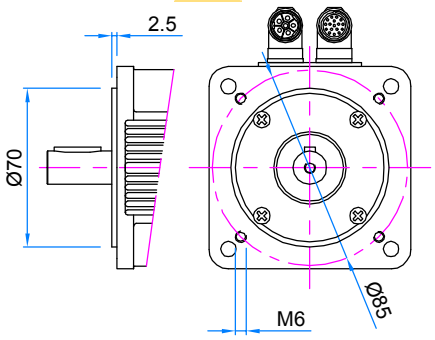
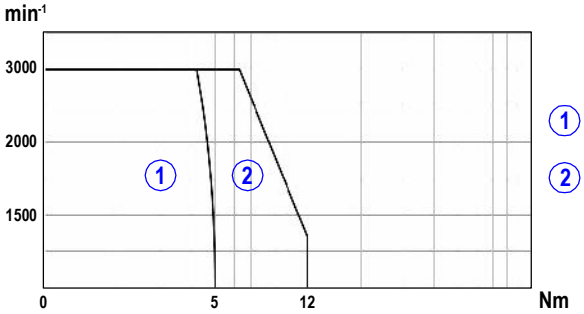




① Continuous duty

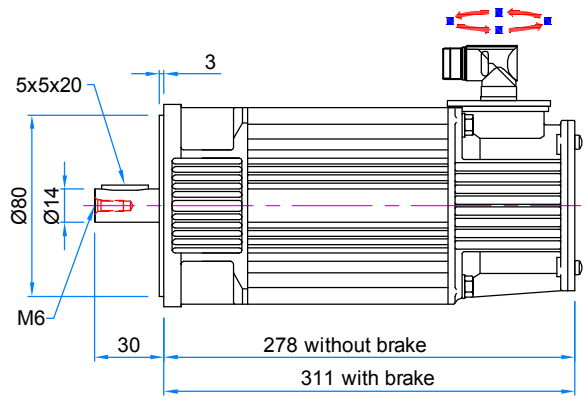
② Intermittent duty

Brushless servomotor BLR / BLE 04.7

6.5Nm

Type	symbols	units	BLR / BLE 04.7					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	6.5	6.5	6.5	6.5	6.5	6.5
Continuous stall current	In	A	3.4 rms	4.4 rms	7 rms	1.9 rms	2.5 rms	3.8 rms
Peak stall torque	Cp	Nm	17	17	17	17	17	17
Peak current	Ip	A	9 rms	12 rms	19 rms	5 rms	6.5 rms	10 rms
Torque constant	Kt	Nm/A	1.92 rms	1.5 rms	0.93 rms	3.5 rms	2.7 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175	177	170	320	325	315
Voltage constant	Ke	Vs/rad	1.11 rms	0.84 rms	0.54 rms	2.03 rms	1.55 rms	1 rms
Terminals resistance	Rm	Ohm	7.2	4	1.8	23	13	5.7
Terminals inductance	Lm	mH	15	8	3.6	44	25	11
Moment of inertia	J	mkgm²	0.41	0.41	0.41	0.41	0.41	0.41
Torque at 1500 rpm	C1	Nm	6.3	6.3	6.3	6.3	6.3	6.3
Power at 1500 rpm	P1	W	1000	1000	1000	1000	1000	1000
Current at 1500 rpm	I1	A	3.3 rms	4.2 rms	6.8 rms	1.8 rms	2.3 rms	3.6 rms
Torque at 2000 rpm	C2	Nm	--	6	6	--	6	6
Power at 2000 rpm	P2	W	--	1260	1260	--	1260	1260
Current at 2000 rpm	I2	A	--	4 rms	6.4 rms	--	2.2 rms	3.5 rms
Torque at 3000 rpm	C3	Nm	--	--	5.5	--	--	5.5
Power at 3000 rpm	P3	W	--	--	1720	--	--	1720
Current at 3000 rpm	I3	A	--	--	5.9 rms	--	--	3.2 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 5 kg



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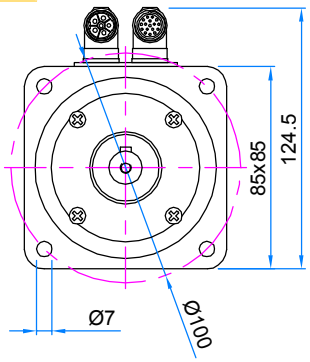

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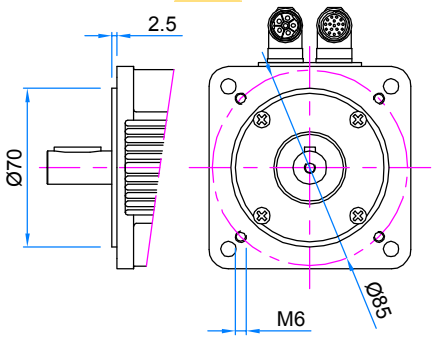
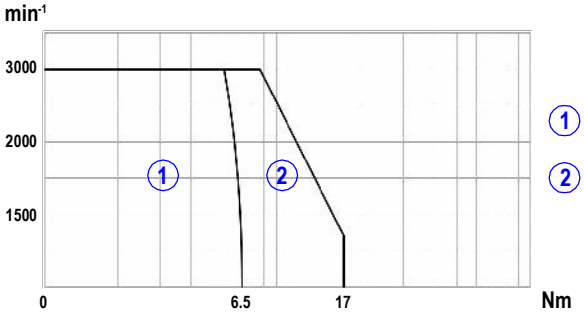




① Continuous duty

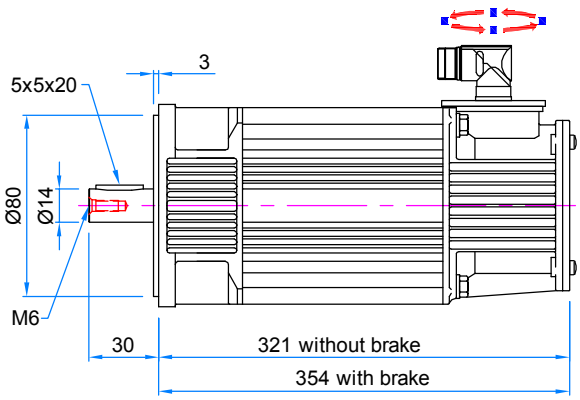
② Intermittent duty

Brushless servomotor BLR / BLE 04.8

8Nm

Type	symbols	units	BLR / BLE 04.8					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	8	8	8	8	8	8
Continuous stall current	In	A	4.2 rms	5.4 rms	8.6 rms	2.3 rms	3 rms	4.7 rms
Peak stall torque	Cp	Nm	21	21	21	21	21	21
Peak current	Ip	A	11 rms	14 rms	23 rms	6 rms	8 rms	13 rms
Torque constant	Kt	Nm/A	1.92 rms	1.5 rms	0.93 rms	3.5 rms	2.7 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175	177	170	320	325	315
Voltage constant	Ke	Vs/rad	1.11 rms	0.84 rms	0.54 rms	2.03 rms	1.55 rms	1 rms
Terminals resistance	Rm	Ohm	5.2	2.9	1.3	16	8.8	3.9
Terminals inductance	Lm	mH	11	6.1	2.7	34	19	8.5
Moment of inertia	J	mkgm²	0.5	0.5	0.5	0.5	0.5	0.5
Torque at 1500 rpm	C1	Nm	7.7	7.7	7.7	7.7	7.7	7.7
Power at 1500 rpm	P1	W	1200	1200	1200	1200	1200	1200
Current at 1500 rpm	I1	A	4 rms	5.1 rms	8.3 rms	2.2 rms	2.8 rms	4.4 rms
Torque at 2000 rpm	C2	Nm	--	7.5	7.5	--	7.5	7.5
Power at 2000 rpm	P2	W	--	1570	1570	--	1570	1570
Current at 2000 rpm	I2	A	--	5 rms	8 rms	--	2.8 rms	4.3 rms
Torque at 3000 rpm	C3	Nm	--	--	6.8	--	--	6.8
Power at 3000 rpm	P3	W	--	--	2130	--	--	2130
Current at 3000 rpm	I3	A	--	--	7.3 rms	--	--	3.9 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 6.2 kg



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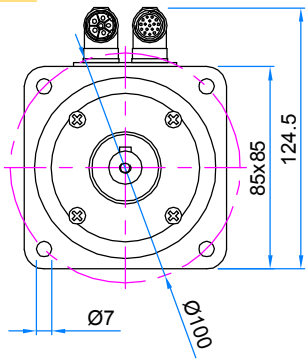

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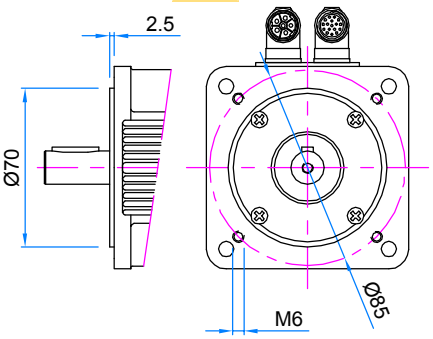
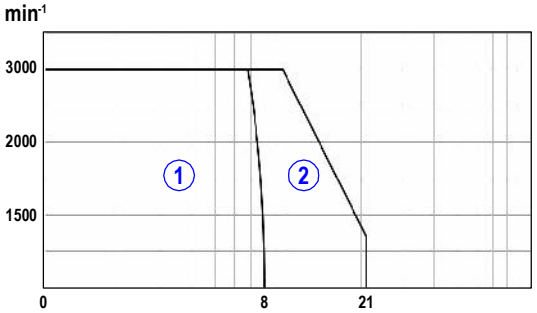
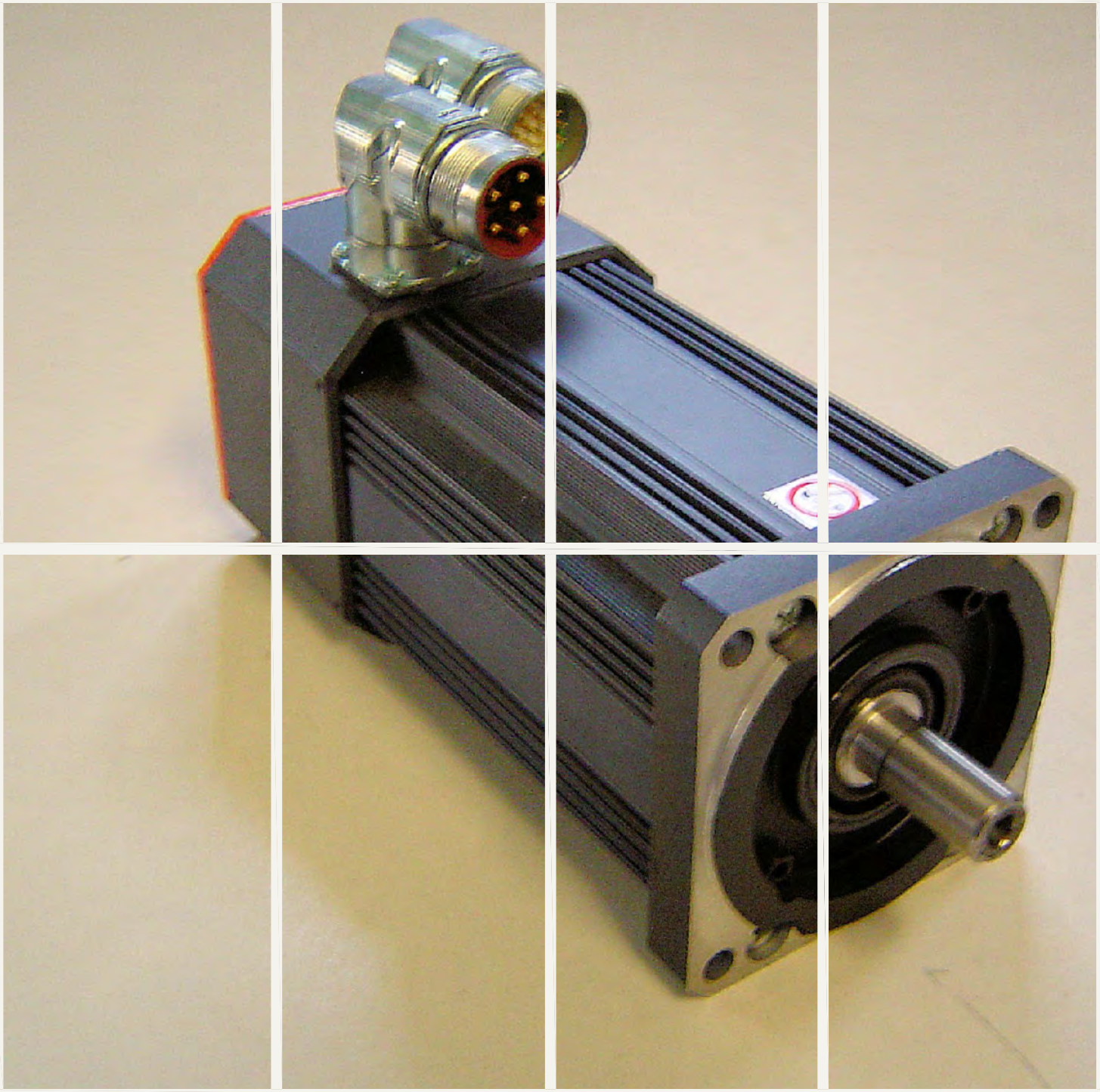




① Continuous duty

② Intermittent duty



DRIVE SYSTEMS srl

MOTORI ELETTRICI PER L'AUTOMAZIONE
ELECTRIC MOTORS FOR AUTOMATION

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Ed. 2016

DRIVE SYSTEMS srl

Servomotori brushless sincroni
tipo BLR / BLE 05
Coppia da 4.5Nm a 13Nm

Brushless synchronous servomotors
type BLR / BLE 05
Torque from 4.5Nm to 13Nm

L' Azienda

Presente sul mercato da oltre 30 anni nel settore delle applicazioni a velocità variabile, la Drive Systems S.r.l. fabbrica e commercializza un'ampia gamma di prodotti avanzati e di qualità che rispondono ai requisiti essenziali prescritti dalle direttive comunitarie europee e muniti pertanto della marcatura CE. Inoltre, al fine di garantire la qualità dei nostri prodotti, abbiamo ottenuto la certificazione ISO9001:2008.

Al fine di ottenere una gestione flessibile della propria ampia gamma di prodotti, la Drive Systems S.r.l. si serve di fornitori esterni all'azienda per l'approvvigionamento dei semilavorati che vengono prodotti secondo proprio progetto e concentra quindi la propria attività sul montaggio e collaudo dei motori per ottenere la qualità del prodotto finale.

I continui investimenti nella ricerca di soluzioni tecnologiche volte al miglioramento del prodotto e del rapporto qualità/prezzo, unita al Know-how di tecnici qualificati ed al continuo confronto di esperienze applicative nel campo dell'automazione industriale, fanno della nostra azienda il partner ideale nel panorama internazionale dei costruttori di motori.

La distribuzione dei prodotti sul territorio nazionale ed internazionale avviene sia direttamente sia indirettamente attraverso una rete di rappresentanti, specialisti nell'automazione, ai quali l'azienda fornisce il necessario supporto tecnico/commerciale per operare nelle rispettive aree di competenza.

Sebbene la maggior parte delle applicazioni può essere soddisfatta attraverso l'ampia gamma di prodotti standard, quando vi è la necessità di fornire un prodotto che risponda ad esigenze specifiche, la Drive Systems S.r.l. si fa avanti offrendo un servizio tecnico-informativo che permette, attraverso il contatto con il cliente, di individuare la soluzione che meglio risponde alla specifica richiesta.

Controlli interni verificano costantemente ogni stadio del processo di produzione, assicurando la migliore qualità al prodotto finale. Tutte le prove hanno lo scopo di garantire che il prodotto sia in grado di sostenere le condizioni di lavoro alle quali sarà sottoposto durante il suo normale utilizzo.

Le applicazioni nelle quali trovano più comunemente impiego i nostri motori sono: macchine per imballaggio e confezionamento, macchine per la lavorazione della carta, della plastica e del legno, macchine del settore alimentare, tessile e calzaturiero e più recentemente, nel settore delle macchine di precisione, in particolare robotica, ed in quello delle apparecchiature medicali

La flessibilità produttiva, la possibilità di ordinativi in lotti di piccole quantità, la formulazione di offerte in tempi brevi, la disponibilità alla realizzazione di esecuzioni speciali ed una continua attenzione all'evoluzione ed allo sviluppo delle nuove tecnologie, rendono la DRIVE SYSTEMS S.r.l. partner affidabile per la sua propensione a soddisfare le problematiche del cliente.

The company

In the market for over 30 years, in the field of variable speed appliances, DRIVE SYSTEMS S.r.l. manufactures and markets a wide range of advanced and quality products, corresponding to EEC directives and CE marked. Moreover, to ensure the quality of our products, we got ISO9001:2008 approval.

In order to get a flexible management of the wide range of products, Drive Systems S.r.l. uses external historic suppliers to purchase the semi-finished, manufactured on its own design, therefore its activity is for the most part addressed to the assembly of components and testing of the product to obtain the final excellent product's quality.

Constant investments in the search of technological solutions turned to the improvement of the products and quality/price relation, together with qualified technicians Know-how and to the continuous comparison with applied experiences in the field of industrial automation, make our Company the ideal partner in the international outline of motor's manufacturers.

Product distribution and marketing on the national and international territory is made directly and through representatives (sole agents), specialized in the automation appliances, supplied by the Company with all necessary technical and commercial support in order to act well in their own job areas.

Thus the majority of applications can be satisfied, when there is a need for a specific product design, Drive Systems S.r.l. comes to the fore by offering customers a technical service which ensures that the product, thanks to a joint-work with the customer, fully meets the required performances.

Internal inspections scrutinize every stage of production to ensure the best quality product. All tests are carried out in order to assure that the final product can stand working conditions to whom it is subject to during its standard application.

In terms of industry sectors, packaging and packing machines, plastic, paper and wood processing, food, textile and footwear equipments, precision equipments, particularly robotics are the most common applications for the company's products and, more recently, in the field of medical devices.

The high productive flexibility, the chance of small quantity batches orders, the very short term on making offers, the availability in realization of special executions on demand, and a constant attention to the evolution and growth of new technologies, make Drive Systems S.r.l. reliable partner for its disposition to meet customer's needs and requirements.

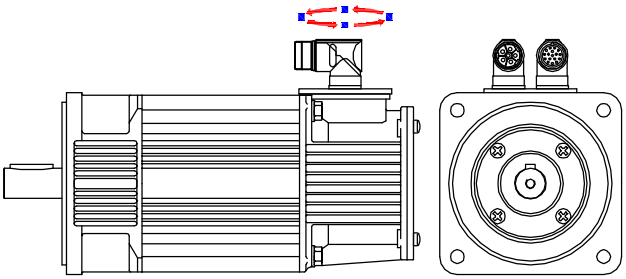
DRIVE SYSTEMS srl

MOTORI ELETTRICI PER L'AUTOMAZIONE
ELECTRIC MOTORS FOR AUTOMATION

20126 Milano - Via Dracone 17 (Italy)
Tel.+39.0227000750 Fax.+39.022571024
http://www.drivesystems.it e-mail info@drivesystems.it

Brushless Servomotors 4.5Nm-13Nm

Caratteristiche generali
General features



Servomotori brushless sincroni a norme CEI ed IEC
Brushless synchronous servomotors CEI and IEC standards

Statore a stella trifase - rotore 8 poli con magneti NdFeB
Three-phase star stator - 8 poles rotor with NdFeB magnets

Grado di protezione IP54
Degree of protection IP54

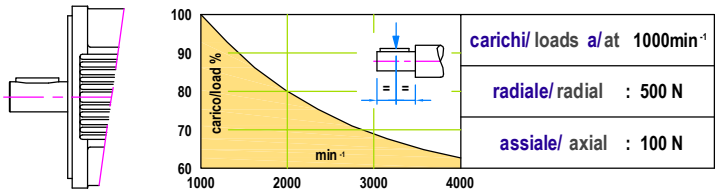
Isolamento classe F e H
Insulation F and H class

Metodo di raffreddamento IC0041
Cooling form IC0041

Retroazione da resolver 2 poli
Feedback from resolver 2 poles

Retroazione da encoder incrementale o assoluto, singolo o multigiro
Feedback from incremental or absolute encoder, single or multi turn

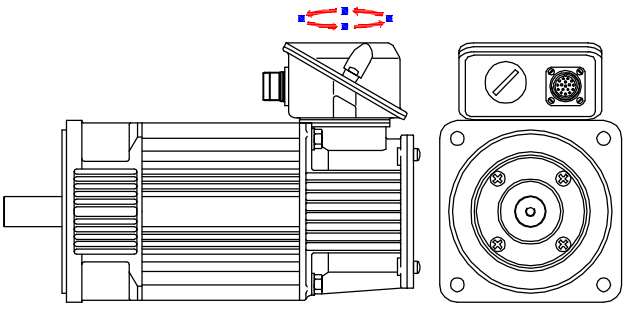
Albero con chiavetta
Shaft with key



Protezione termica PTC - soglia: 130°C
Thermal protection PTC - threshold: 130°C

Motore con connettori
Motor with connectors

Caratteristiche su richiesta
Optionals on request



Grado di protezione IP65
Degree of protection IP65

Freno interno di sicurezza
Internal safety brake

Albero senza chiavetta
Shaft without key

Motore con scatola morsetti
Motor with terminal box

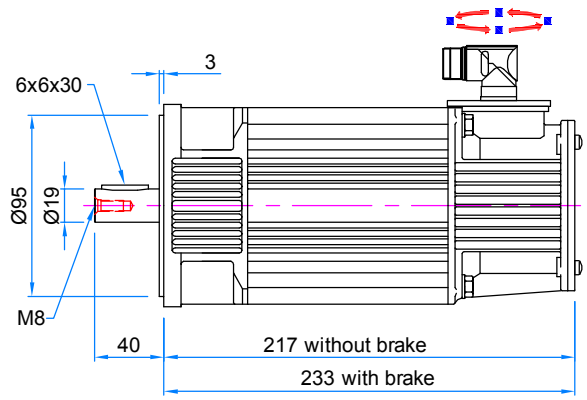
Versione servoventilata
Servo-ventilated version

Brushless servomotor BLR / BLE 05.4

4.5Nm

Type	symbols	units	BLR / BLE 05.4					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque (1)	Cn	Nm	4.5	4.5	4.5	4.5	4.5	4.5
Continuous stall current	In	A	2.4 rms	3.2 rms	4.6 rms	1.3 rms	1.8 rms	2.5 rms
Peak stall torque	Cp	Nm	12	12	12	12	12	12
Peak current	Ip	A	6.5 rms	9 rms	13 rms	3.5 rms	4.6 rms	6.6 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	0.98 rms	3.5 rms	2.6 rms	1.82 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175 rms	172 rms	177 rms	320 rms	315 rms	330 rms
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.56 rms	2.03 rms	1.5 rms	1.05 rms
Terminals resistance	Rm	Ohm	18	16	4.3	56	31	14
Terminals inductance	Lm	mH	52	29	13	184	103	46
Moment of inertia	J	mkgm²	0.1	0.1	0.1	0.1	0.1	0.1
Torque at 1500 rpm	C1	Nm	4.2	4.2	4.2	4.2	4.2	4.2
Power at 1500 rpm	P1	W	660	660	660	660	660	660
Current at 1500 rpm	I1	A	2.2 rms	3 rms	4.3 rms	1.2 rms	1.6 rms	2.3 rms
Torque at 2000 rpm	C2	Nm	--	4.1	4.1	--	4.1	4.1
Power at 2000 rpm	P2	W	--	860	860	--	860	860
Current at 2000 rpm	I2	A	--	2.9 rms	4.2 rms	--	1.6 rms	2.3 rms
Torque at 3000 rpm	C3	Nm	--	--	3.9	--	--	3.9
Power at 3000 rpm	P3	W	--	--	1220	--	--	1220
Current at 3000 rpm	I3	A	--	--	4 rms	--	--	2.2 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 5 kg



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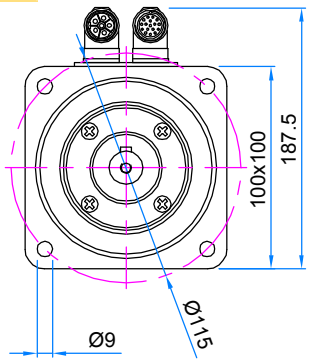

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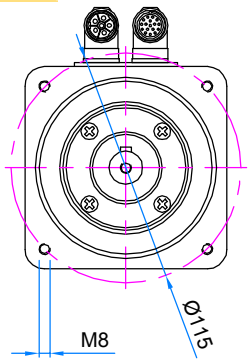
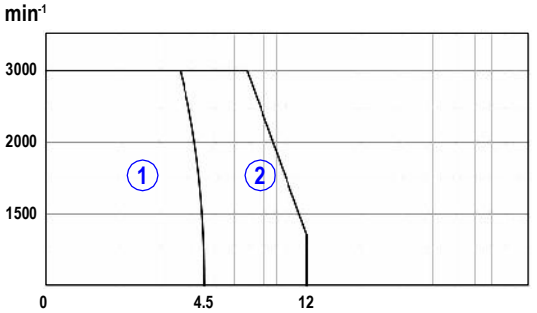




① Continuous duty

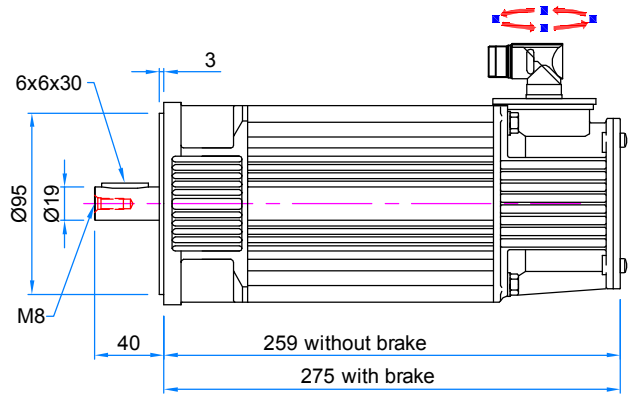
② Intermittent duty

Brushless servomotor BLR / BLE 05.7

7.5Nm

Type	symbols	units	BLR / BLE 05.7					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque (1)	Cn	Nm	7.5	7.5	7.5	7.5	7.5	7.5
Continuous stall current	In	A	3.9 rms	5.3 rms	7.7 rms	2.4 rms	3 rms	4.4 rms
Peak stall torque	Cp	Nm	20	20	20	20	20	20
Peak current	Ip	A	10.5 rms	15 rms	21 rms	6.5 rms	8 rms	12 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	0.98 rms	3.2 rms	2.54 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175 rms	172 rms	177 rms	320 rms	315 rms	330 rms
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.56 rms	2.03 rms	1.5 rms	1.05 rms
Terminals resistance	Rm	Ohm	5.6	3.2	1.4	21	12	5.3
Terminals inductance	Lm	mH	13	15	6.4	84	52	23
Moment of inertia	J	mkgm²	0.29	0.29	0.29	0.29	0.29	0.29
Torque at 1500 rpm	C1	Nm	7.2	7.2	7.2	7.2	7.2	7.2
Power at 1500 rpm	P1	W	1130	1130	1130	1130	1130	1130
Current at 1500 rpm	I1	A	3.8 rms	5.2 rms	7.4 rms	2.3 rms	2.9 rms	4.2 rms
Torque at 2000 rpm	C2	Nm	--	7	7	--	7	7
Power at 2000 rpm	P2	W	--	1470	1470	--	1470	1470
Current at 2000 rpm	I2	A	--	5 rms	7.2 rms	--	3.2 rms	4.1 rms
Torque at 3000 rpm	C3	Nm	--	--	6.5	--	--	6.5
Power at 3000 rpm	P3	W	--	--	2040	--	--	2040
Current at 3000 rpm	I3	A	--	--	6.7 rms	--	--	3.8 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 7 kg



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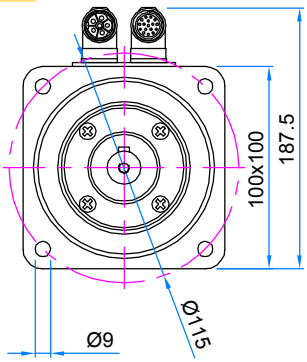

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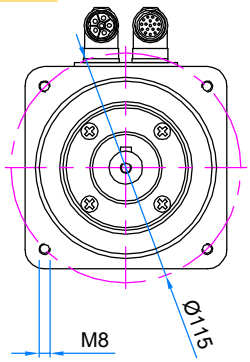
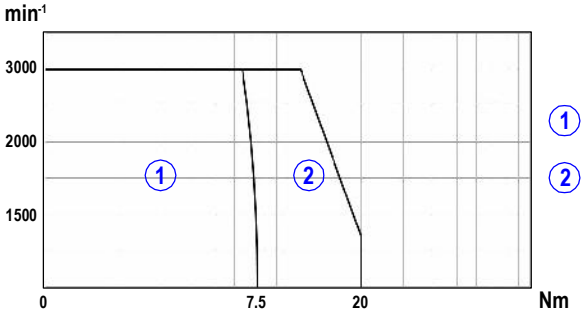




① Continuous duty

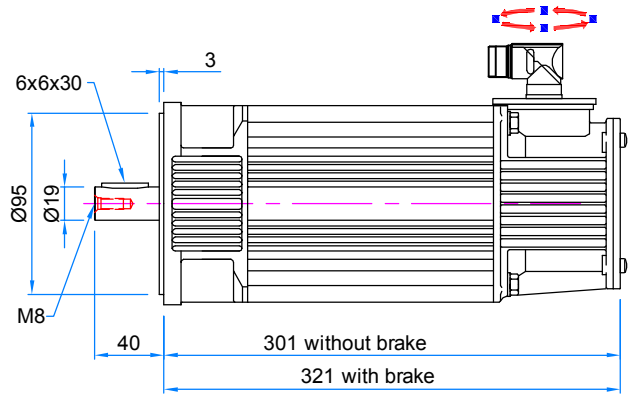
② Intermittent duty

Brushless servomotor BLR / BLE 05.10

10Nm

Type	symbols	units	BLR / BLE 05.10					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	10	10	10	10	10	10
Continuous stall current	In	A	5.2 rms	7.1 rms	8.5 rms	3.2 rms	3.9 rms	5.8 rms
Peak stall torque	Cp	Nm	26	26	26	26	26	26
Peak current	Ip	A	14 rms	19 rms	27 rms	8.5 rms	10.5 rms	15 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	0.98 rms	3.2 rms	2.54 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175	172	177	320	315	330
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.56 rms	2.03 rms	1.5 rms	1.05 rms
Terminals resistance	Rm	Ohm	3.2	1.8	0.8	12	7	3
Terminals inductance	Lm	mH	16	9	4	48	16	15
Moment of inertia	J	mkgm²	0.41	0.41	0.41	0.41	0.41	0.41
Torque at 1500 rpm	C1	Nm	9.6	9.6	9.6	9.6	9.6	9.6
Power at 1500 rpm	P1	W	1507	1507	1507	1507	1507	1507
Current at 1500 rpm	I1	A	5 rms	6.8 rms	9.8 rms	3 rms	3.8 rms	5.6 rms
Torque at 2000 rpm	C2	Nm	--	9.3	9.3	--	9.3	9.3
Power at 2000 rpm	P2	W	--	1953	1953	--	1953	1953
Current at 2000 rpm	I2	A	--	6.6 rms	9.5 rms	--	3.7 rms	5.4 rms
Torque at 3000 rpm	C3	Nm	--	--	8.5	--	--	8.5
Power at 3000 rpm	P3	W	--	--	2670	--	--	2670
Current at 3000 rpm	I3	A	--	--	8.7 rms	--	--	5 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 9 kg



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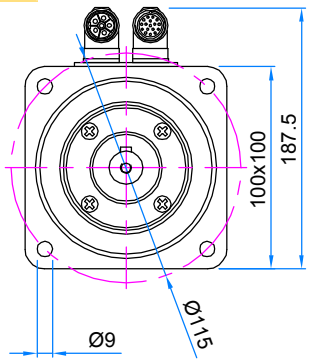

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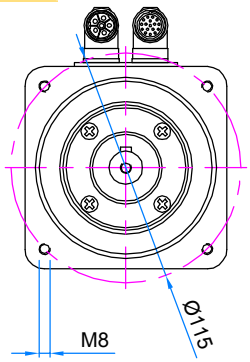
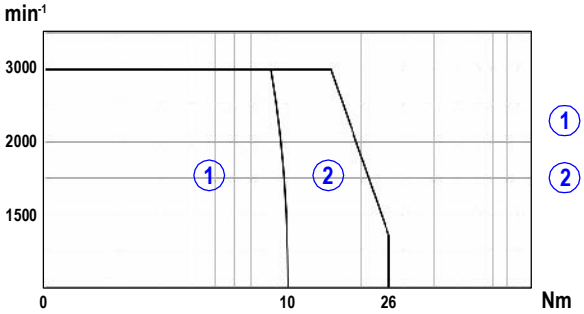




① Continuous duty

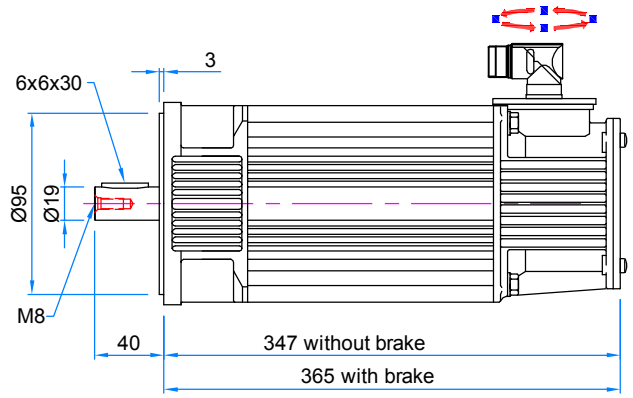
② Intermittent duty

Brushless servomotor BLR / BLE 05.13

13Nm

Type	symbols	units	BLR / BLE 05.13					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	13	13	13	13	13	13
Continuous stall current	In	A	6.8 rms	9.3 rms	13.3 rms	4.1 rms	5.2 rms	7.5 rms
Peak stall torque	Cp	Nm	33	33	33	33	33	33
Peak current	Ip	A	18 rms	24 rms	34 rms	10.5 rms	13 rms	24 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	0.98 rms	3.2 rms	2.54 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175	172	177	320	315	330
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.56 rms	2.03 rms	1.5 rms	1.05 rms
Terminals resistance	Rm	Ohm	6.4	3.6	1.6	2.8	1.6	0.7
Terminals inductance	Lm	mH	30	17	7.5	15	8.5	3.6
Moment of inertia	J	mkgm²	0.5	0.5	0.5	0.5	0.5	0.5
Torque at 1500 rpm	C1	Nm	12.5	12.5	12.5	12.5	12.5	12.5
Power at 1500 rpm	P1	W	1963	1963	1963	1963	1963	1963
Current at 1500 rpm	I1	A	6.5 rms	8.9 rms	12.8 rms	3.9 rms	5 rms	7.3 rms
Torque at 2000 rpm	C2	Nm	--	12.1	12.1	--	12.1	12.1
Power at 2000 rpm	P2	W	--	2541	2541	--	2541	2541
Current at 2000 rpm	I2	A	--	8.6 rms	12.4 rms	--	4.8 rms	7 rms
Torque at 3000 rpm	C3	Nm	--	--	11	--	--	11
Power at 3000 rpm	P3	W	--	--	3454	--	--	3454
Current at 3000 rpm	I3	A	--	--	11.3 rms	--	--	6.4 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 11 kg



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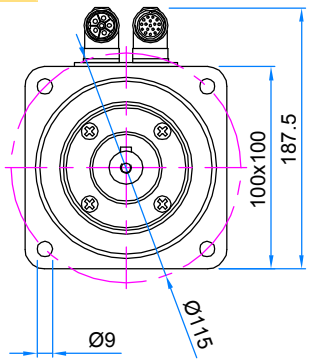

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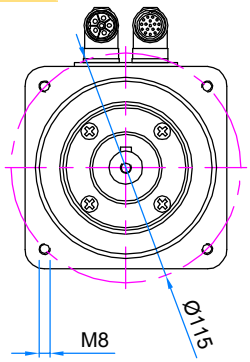
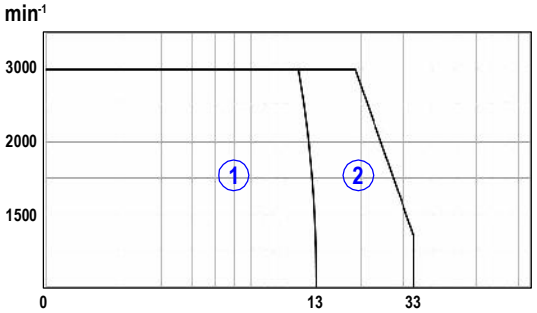
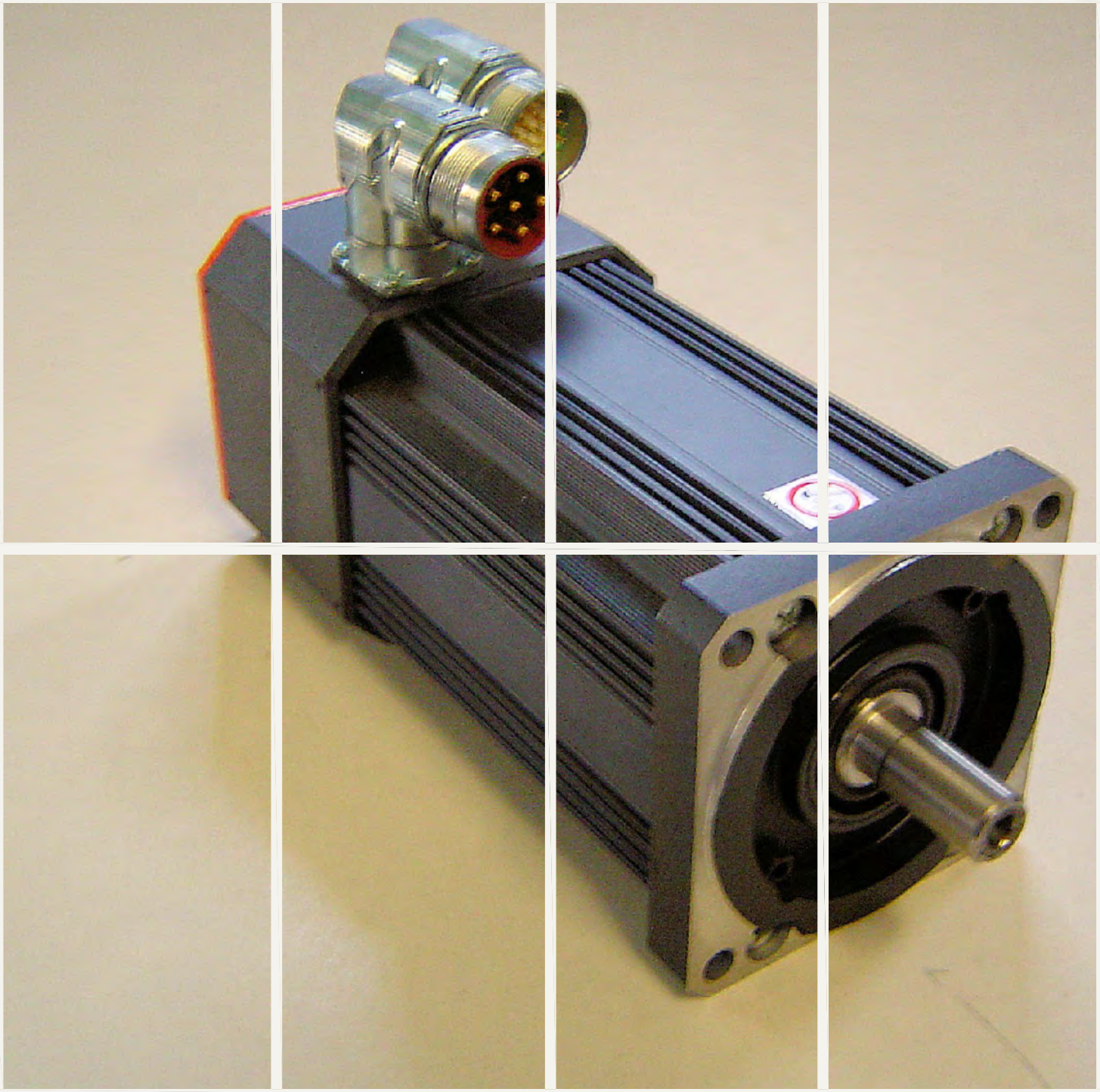




① Continuous duty

② Intermittent duty



DRIVE SYSTEMS srl

MOTORI ELETTRICI PER L'AUTOMAZIONE
ELECTRIC MOTORS FOR AUTOMATION

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Ed. 2016

DRIVE SYSTEMS srl

Servomotori brushless sincroni
tipo BLR / BLE 07
Coppia da 6Nm a 50Nm

Brushless synchronous servomotors
type BLR / BLE 07
Torque from 6Nm to 50Nm

L' Azienda

Presente sul mercato da oltre 30 anni nel settore delle applicazioni a velocità variabile, la Drive Systems S.r.l. fabbrica e commercializza un'ampia gamma di prodotti avanzati e di qualità che rispondono ai requisiti essenziali prescritti dalle direttive comunitarie europee e muniti pertanto della marcatura CE. Inoltre, al fine di garantire la qualità dei nostri prodotti, abbiamo ottenuto la certificazione ISO9001:2008.

Al fine di ottenere una gestione flessibile della propria ampia gamma di prodotti, la Drive Systems S.r.l. si serve di fornitori esterni all'azienda per l'approvvigionamento dei semilavorati che vengono prodotti secondo proprio progetto e concentra quindi la propria attività sul montaggio e collaudo dei motori per ottenere la qualità del prodotto finale.

I continui investimenti nella ricerca di soluzioni tecnologiche volte al miglioramento del prodotto e del rapporto qualità/prezzo, unita al Know-how di tecnici qualificati ed al continuo confronto di esperienze applicative nel campo dell'automazione industriale, fanno della nostra azienda il partner ideale nel panorama internazionale dei costruttori di motori.

La distribuzione dei prodotti sul territorio nazionale ed internazionale avviene sia direttamente sia indirettamente attraverso una rete di rappresentanti, specialisti nell'automazione, ai quali l'azienda fornisce il necessario supporto tecnico/commerciale per operare nelle rispettive aree di competenza.

Sebbene la maggior parte delle applicazioni può essere soddisfatta attraverso l'ampia gamma di prodotti standard, quando vi è la necessità di fornire un prodotto che risponda ad esigenze specifiche, la Drive Systems S.r.l. si fa avanti offrendo un servizio tecnico-informativo che permette, attraverso il contatto con il cliente, di individuare la soluzione che meglio risponde alla specifica richiesta.

Controlli interni verificano costantemente ogni stadio del processo di produzione, assicurando la migliore qualità al prodotto finale. Tutte le prove hanno lo scopo di garantire che il prodotto sia in grado di sostenere le condizioni di lavoro alle quali sarà sottoposto durante il suo normale utilizzo.

Le applicazioni nelle quali trovano più comunemente impiego i nostri motori sono: macchine per imballaggio e confezionamento, macchine per la lavorazione della carta, della plastica e del legno, macchine del settore alimentare, tessile e calzaturiero e più recentemente, nel settore delle macchine di precisione, in particolare robotica, ed in quello delle apparecchiature medicali

La flessibilità produttiva, la possibilità di ordinativi in lotti di piccole quantità, la formulazione di offerte in tempi brevi, la disponibilità alla realizzazione di esecuzioni speciali ed una continua attenzione all'evoluzione ed allo sviluppo delle nuove tecnologie, rendono la DRIVE SYSTEMS S.r.l. partner affidabile per la sua propensione a soddisfare le problematiche del cliente.

The company

In the market for over 30 years, in the field of variable speed appliances, DRIVE SYSTEMS S.r.l. manufactures and markets a wide range of advanced and quality products, corresponding to EEC directives and CE marked. Moreover, to ensure the quality of our products, we got ISO9001:2008 approval.

In order to get a flexible management of the wide range of products, Drive Systems S.r.l. uses external historic suppliers to purchase the semi-finished, manufactured on its own design, therefore its activity is for the most part addressed to the assembly of components and testing of the product to obtain the final excellent product's quality.

Constant investments in the search of technological solutions turned to the improvement of the products and quality/price relation, together with qualified technicians Know-how and to the continuous comparison with applied experiences in the field of industrial automation, make our Company the ideal partner in the international outline of motor's manufacturers.

Product distribution and marketing on the national and international territory is made directly and through representatives (sole agents), specialized in the automation appliances, supplied by the Company with all necessary technical and commercial support in order to act well in their own job areas.

Thus the majority of applications can be satisfied, when there is a need for a specific product design, Drive Systems S.r.l. comes to the fore by offering customers a technical service which ensures that the product, thanks to a joint-work with the customer, fully meets the required performances.

Internal inspections scrutinize every stage of production to ensure the best quality product. All tests are carried out in order to assure that the final product can stand working conditions to whom it is subject to during its standard application.

In terms of industry sectors, packaging and packing machines, plastic, paper and wood processing, food, textile and footwear equipments, precision equipments, particularly robotics are the most common applications for the company's products and, more recently, in the field of medical devices.

The high productive flexibility, the chance of small quantity batches orders, the very short term on making offers, the availability in realization of special executions on demand, and a constant attention to the evolution and growth of new technologies, make Drive Systems S.r.l. reliable partner for its disposition to meet customer's needs and requirements.

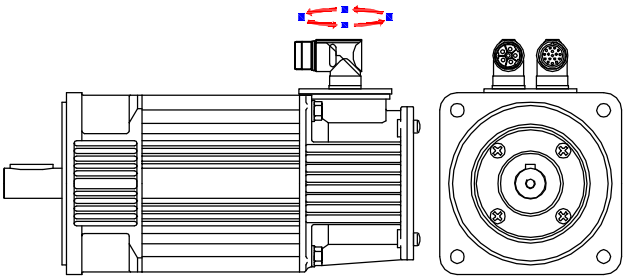
DRIVE SYSTEMS srl

MOTORI ELETTRICI PER L'AUTOMAZIONE
ELECTRIC MOTORS FOR AUTOMATION

20126 Milano - Via Dracone 17 (Italy)
Tel.+39.0227000750 Fax.+39.022571024
http://www.drivesystems.it e-mail info@drivesystems.it

Brushless Servomotors 6Nm-50Nm

Caratteristiche generali
General features



Servomotori brushless sincroni a norme CEI ed IEC
Brushless synchronous servomotors CEI and IEC standards

Statore a stella trifase - rotore 8 poli con magneti NdFeB
Three-phase star stator - 8 poles rotor with NdFeB magnets

Grado di protezione IP54
Degree of protection IP54

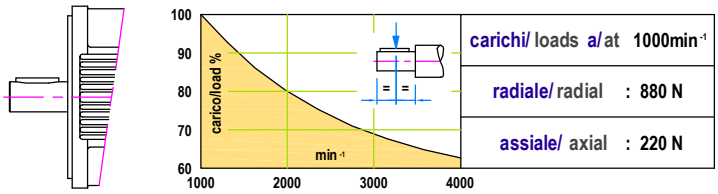
Isolamento classe F e H
Insulation F and H class

Metodo di raffreddamento IC0041
Cooling form IC0041

Retroazione da resolver 2 poli
Feedback from resolver 2 poles

Retroazione da encoder incrementale o assoluto, singolo o multigiro
Feedback from incremental or absolute encoder, single or multi turn

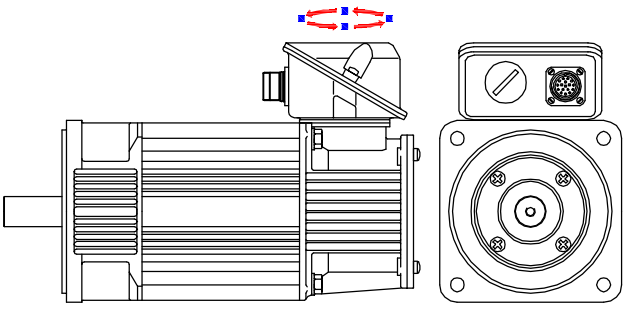
Albero con chiavetta
Shaft with key



Protezione termica PTC - soglia: 130°C
Thermal protection PTC - threshold: 130°C

Motore con connettori
Motor with connectors

Caratteristiche su richiesta
Optionals on request



Grado di protezione IP65
Degree of protection IP65

Freno interno di sicurezza
Internal safety brake

Albero senza chiavetta
Shaft without key

Motore con scatola morsetti
Motor with terminal box

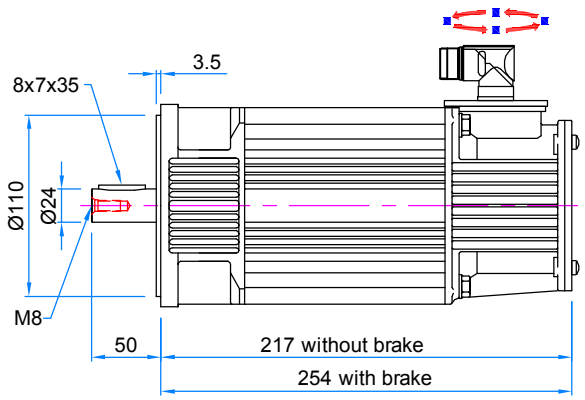
Versione servoventilata
Servo-ventilated version

Brushless servomotor BLR / BLE 07.6

6Nm

Type	symbols	units	BLR / BLE 07.6					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque (1)	Cn	Nm	6	6	6	6	6	6
Continuous stall current	In	A	3.1 rms	4.3 rms	6.1 rms	1.8 rms	2.3 rms	3.5 rms
Peak stall torque	Cp	Nm	17	17	17	17	17	17
Peak current	Ip	A	8.9 rms	12.1 rms	17 rms	5 rms	6.6 rms	10 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	0.99 rms	3.4 rms	2.6 rms	1.7 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175 rms	173 rms	179 rms	308 rms	315 rms	308 rms
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.57 rms	1.96 rms	1.5 rms	0.98 rms
Terminals resistance	Rm	Ohm	8.2	4.6	2.12	24	13	6.2
Terminals inductance	Lm	mH	29	10	7.2	80	45	21
Moment of inertia	J	mkgm²	0.70	0.70	0.70	0.70	0.70	0.70
Torque at 1500 rpm	C1	Nm	5.7	5.7	5.7	5.7	5.7	5.7
Power at 1500 rpm	P1	W	895	895	895	895	895	895
Current at 1500 rpm	I1	A	3 rms	4.1 rms	5.8 rms	1.7 rms	2.2 rms	3.4 rms
Torque at 2000 rpm	C2	Nm	--	5.6	5.6	--	5.6	5.6
Power at 2000 rpm	P2	W	--	1176	1176	--	1176	1176
Current at 2000 rpm	I2	A	--	3.95 rms	5.7 rms	--	2.15 rms	3.3 rms
Torque at 3000 rpm	C3	Nm	--	--	5.4	--	--	5.4
Power at 3000 rpm	P3	W	--	--	1695	--	--	1695
Current at 3000 rpm	I3	A	--	--	5.5 rms	--	--	3.2 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 7.4 kg



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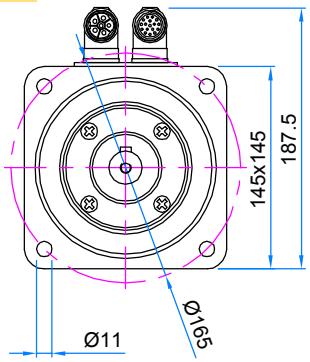

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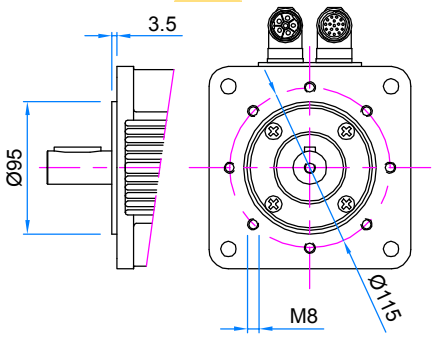
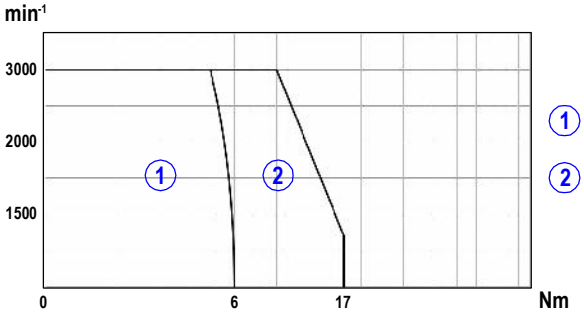




① Continuous duty

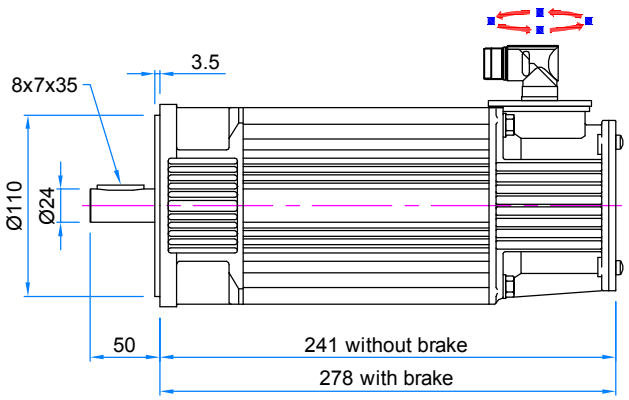
② Intermittent duty

Brushless servomotor BLR / BLE 07.12

12Nm

Type	symbols	units	BLR / BLE 07.12					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque (1)	Cn	Nm	12	12	12	12	12	12
Continuous stall current	In	A	6.25 rms	8.51 rms	12.12 rms	3.75 rms	4.72 rms	6.93 rms
Peak stall torque	Cp	Nm	32	32	32	32	32	32
Peak current	Ip	A	16.6 rms	22.7 rms	33 rms	10 rms	12.6 rms	18 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	0.99 rms	3.2 rms	2.54 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175 rms	172 rms	179 rms	290 rms	308 rms	313 rms
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.57 rms	1.85 rms	1.47 rms	1 rms
Terminals resistance	Rm	Ohm	2.78	1.65	0.79	8.13	5.8	2.71
Terminals inductance	Lm	mH	14.07	8.35	4	42.25	25	12.25
Moment of inertia	J	mkgm²	0.73	0.73	0.73	0.73	0.73	0.73
Torque at 1500 rpm	C1	Nm	11.2	11.2	11.2	11.2	11.2	11.2
Power at 1500 rpm	P1	W	1758	1758	1758	1758	1758	1758
Current at 1500 rpm	I1	A	5.83 rms	7.94 rms	11.31 rms	3.5 rms	4.4 rms	6.5 rms
Torque at 2000 rpm	C2	Nm	--	10.9	10.9	--	10.9	10.9
Power at 2000 rpm	P2	W	--	2289	2289	--	2289	2289
Current at 2000 rpm	I2	A	--	7.73 rms	11 rms	--	4.3 rms	6.3 rms
Torque at 3000 rpm	C3	Nm	--	--	10.4	--	--	10.4
Power at 3000 rpm	P3	W	--	--	3265	--	--	3265
Current at 3000 rpm	I3	A	--	--	10.5 rms	--	--	6 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 11 kg



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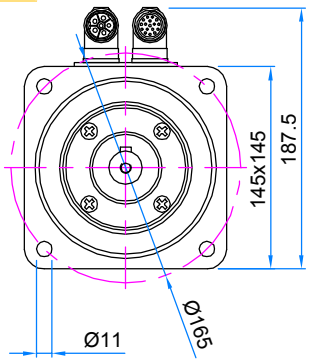

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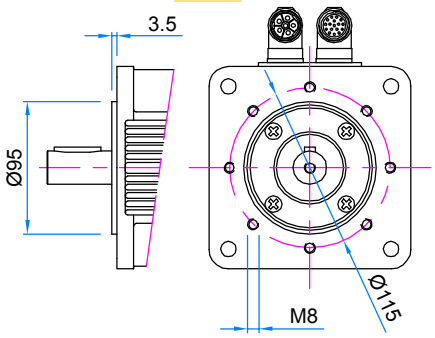
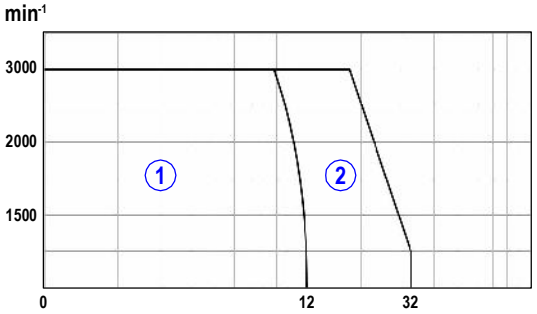




① Continuous duty

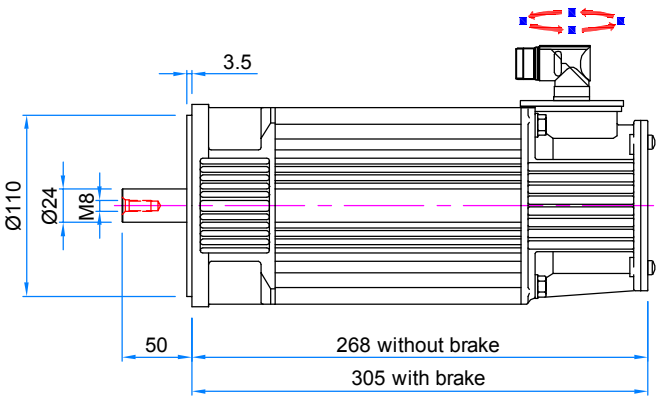
② Intermittent duty

Brushless servomotor BLR / BLE 07.18

18Nm

Type	symbols	units	BLR / BLE 07.18					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	18	18	18	18	18	18
Continuous stall current	In	A	9.3 rms	12.1 rms	18.2 rms	5.2 rms	6.9 rms	10.3 rms
Peak stall torque	Cp	Nm	50	50	50	50	50	50
Peak current	Ip	A	26 rms	34 rms	51 rms	14.4 rms	19.3 rms	28.5 rms
Torque constant	Kt	Nm/A	1.94 rms	1.49 rms	0.99 rms	3.46 rms	2.6 rms	1.76 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	176	180	180	315	312	322
Voltage constant	Ke	Vs/rad	1.12 rms	0.86 rms	0.57 rms	2 rms	1.5 rms	1.02 rms
Terminals resistance	Rm	Ohm	2.4	1.3	0.55	4.65	2.7	1.19
Terminals inductance	Lm	mH	18	20	4.6	33	19.5	8.6
Moment of inertia	J	mkgm²	1.04	1.04	1.04	1.04	1.04	1.04
Torque at 1500 rpm	C1	Nm	16.5	16.5	16.5	16.5	16.5	16.5
Power at 1500 rpm	P1	W	2590	2590	2590	2590	2590	2590
Current at 1500 rpm	I1	A	8.5 rms	11.1 rms	16.7 rms	4.8 rms	6.4 rms	9.4 rms
Torque at 2000 rpm	C2	Nm	--	16	16	--	16	16
Power at 2000 rpm	P2	W	--	3360	3360	--	3360	3360
Current at 2000 rpm	I2	A	--	10.7 rms	5.7 rms	--	6.1 rms	9.1 rms
Torque at 3000 rpm	C3	Nm	--	--	15	--	--	15
Power at 3000 rpm	P3	W	--	--	4710	--	--	4710
Current at 3000 rpm	I3	A	--	--	15.2 rms	--	--	8.5 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 11 kg



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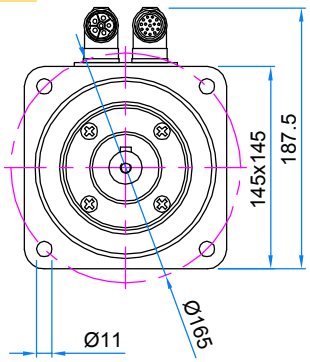

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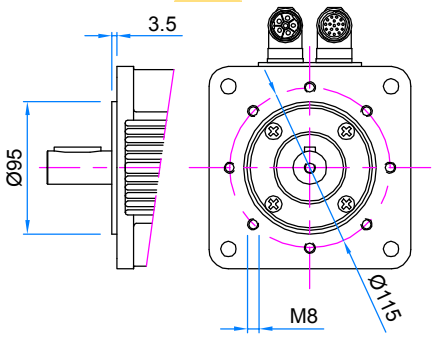
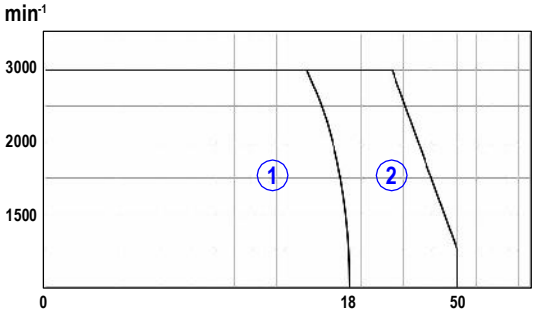




① Continuous duty

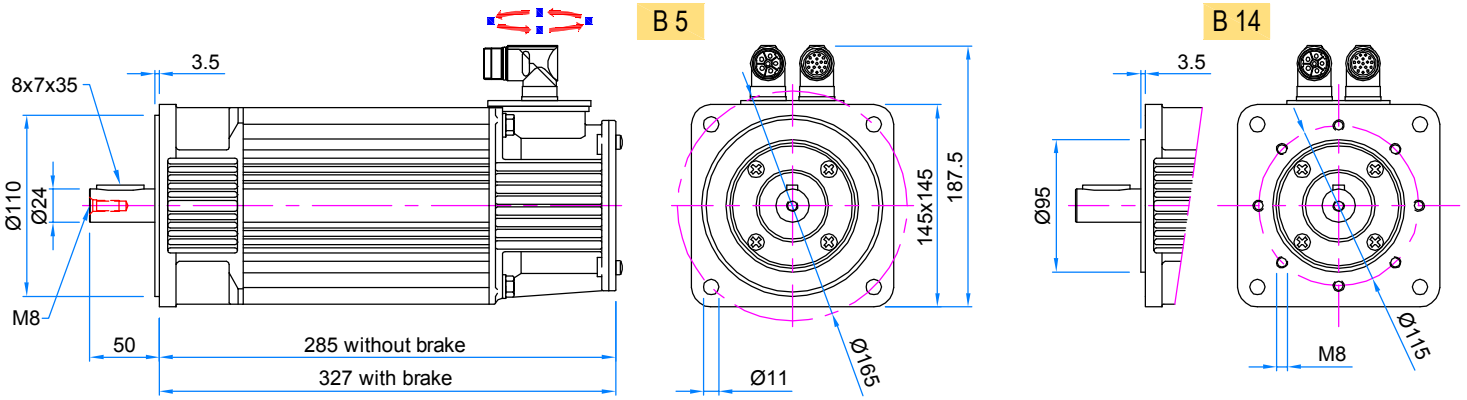
② Intermittent duty

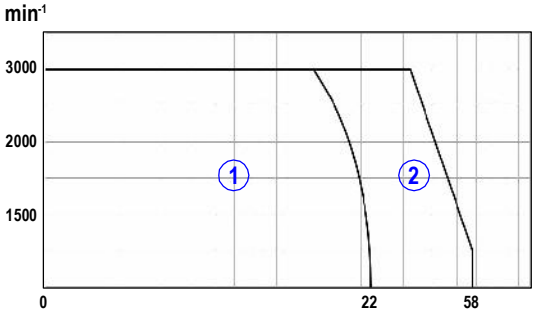
Brushless servomotor BLR / BLE 07.22

22Nm

Type	symbols	units	BLR / BLE 07.22					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	22	22	22	22	22	22
Continuous stall current	In	A	11.7 rms	15.7 rms	22.2 rms	6.6 rms	8.7 rms	12.8 rms
Peak stall torque	Cp	Nm	58	58	58	58	58	58
Peak current	Ip	A	31 rms	42 rms	58 rms	17 rms	23 rms	32 rms
Torque constant	Kt	Nm/A	1.89 rms	1.40 rms	0.99 rms	3.35 rms	2.54 rms	1.77 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	172	170	179	304	310	322
Voltage constant	Ke	Vs/rad	1.1 rms	0.81 rms	0.57 rms	1.94 rms	1.47 rms	1.02 rms
Terminals resistance	Rm	Ohm	1.2	0.55	0.29	3.22	2.1	0.95
Terminals inductance	Lm	mH	7.9	3.6	2	23.12	14.2	6.48
Moment of inertia	J	mkgm²	1.35	1.35	1.35	1.35	1.35	1.35
Torque at 1500 rpm	C1	Nm	19.7	19.7	19.7	19.7	19.7	19.7
Power at 1500 rpm	P1	W	3093	3093	3093	3093	3093	3093
Current at 1500 rpm	I1	A	10.5 rms	14.1 rms	19.9 rms	5.9 rms	7.8 rms	11.1 rms
Torque at 2000 rpm	C2	Nm	--	19	19	--	19	19
Power at 2000 rpm	P2	W	--	3990	3990	--	3990	3990
Current at 2000 rpm	I2	A	--	13.6 rms	19.2 rms	--	7.5 rms	10.7 rms
Torque at 3000 rpm	C3	Nm	--	--	17.6	--	--	17.6
Power at 3000 rpm	P3	W	--	--	5526	--	--	5526
Current at 3000 rpm	I3	A	--	--	17.8 rms	--	--	9.9 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 15 kg





1 Continuous duty

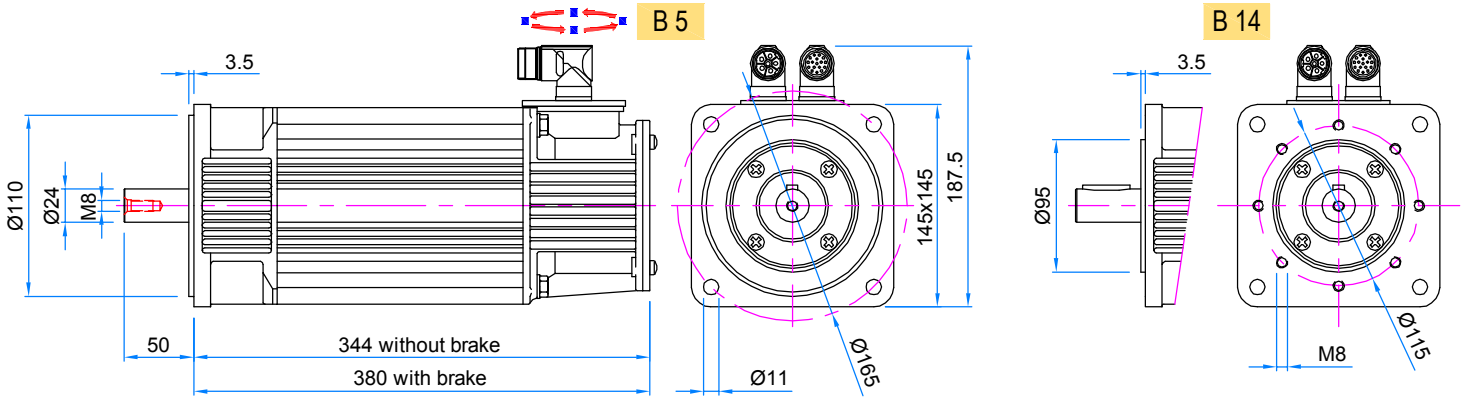
2 Intermittent duty

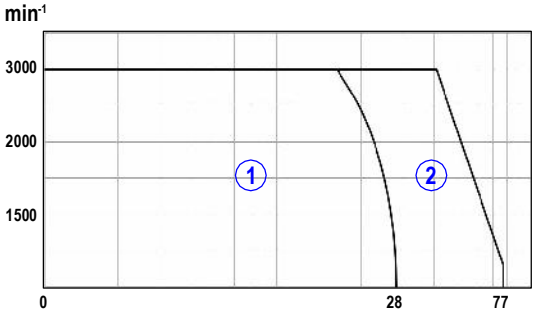
Brushless servomotor BLR / BLE 07.28

28Nm

Type	symbols	units	BLR / BLE 07.28					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K100	K200	K150	K100
Continuous stall torque	Cn	Nm	28	28	28	28	28	28
Continuous stall current	In	A	14.6 rms	19.9 rms	28 rms	8.2 rms	10.8 rms	15.8 rms
Peak stall torque	Cp	Nm	77	77	77	77	77	77
Peak current	Ip	A	40 rms	55 rms	77 rms	23 rms	30 rms	43 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	1 rms	3.4 rms	2.6 rms	1.77 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175	173	183	308	315	322
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.58 rms	1.96 rms	1.5 rms	1.02 rms
Terminals resistance	Rm	Ohm	0.8	0.45	0.2	2.21	1.25	0.59
Terminals inductance	Lm	mH	6	0.67	1.5	15.8	9.2	4.3
Moment of inertia	J	mkgm²	1.83	1.83	1.83	1.83	1.83	1.83
Torque at 1500 rpm	C1	Nm	25	25	25	25	25	25
Power at 1500 rpm	P1	W	3925	3925	3925	3925	3925	3925
Current at 1500 rpm	I1	A	13 rms	17.7 rms	25 rms	7.4 rms	9.6 rms	14.1 rms
Torque at 2000 rpm	C2	Nm	--	24	24	--	24	24
Power at 2000 rpm	P2	W	--	5040	5040	--	5040	5040
Current at 2000 rpm	I2	A	--	17 rms	24 rms	--	9.2 rms	13.5 rms
Torque at 3000 rpm	C3	Nm	--	--	21	--	--	21
Power at 3000 rpm	P3	W	--	--	6594	--	--	6594
Current at 3000 rpm	I3	A	--	--	21 rms	--	--	11.9 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 20 kg





1 Continuous duty

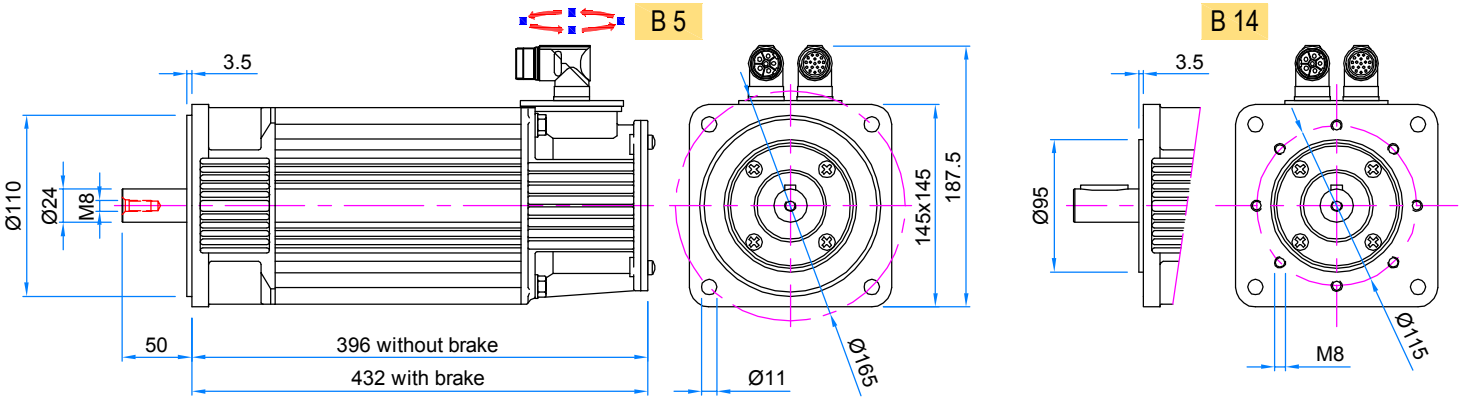
2 Intermittent duty

Brushless servomotor BLR / BLE 07.35

35Nm

Type	symbols	units	BLR / BLE 07.35					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K100	K200	K150	K100
Continuous stall torque	Cn	Nm	35	35	35	35	35	35
Continuous stall current	In	A	18 rms	23.5 rms	35.4 rms	10.5 rms	13.6 rms	19.8 rms
Peak stall torque	Cp	Nm	96	96	96	96	96	96
Peak current	Ip	A	50 rms	65 rms	97 rms	29 rms	38 rms	54 rms
Torque constant	Kt	Nm/A	1.94 rms	1.49 rms	0.99 rms	3.35 rms	2.54 rms	1.77 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	176	180	179	304	308	322
Voltage constant	Ke	Vs/rad	1.12 rms	0.86 rms	0.57 rms	1.94 rms	1.47 rms	1.02 rms
Terminals resistance	Rm	Ohm	0.55	0.3	0.13	1.5	0.4	0.4
Terminals inductance	Lm	mH	4.2	2.3	1.4	11.5	3.3	3.3
Moment of inertia	J	mkgm²	2.42	2.42	2.42	2.42	2.42	2.42
Torque at 1500 rpm	C1	Nm	31	31	31	31	31	31
Power at 1500 rpm	P1	W	4867	4867	4867	4867	4867	4867
Current at 1500 rpm	I1	A	16 rms	20.8 rms	31.3 rms	9.3 rms	12.2 rms	17.5 rms
Torque at 2000 rpm	C2	Nm	--	29	29	--	29	29
Power at 2000 rpm	P2	W	--	6090	6090	--	6090	6090
Current at 2000 rpm	I2	A	--	19.5 rms	16.6 rms	--	11.4 rms	16.4 rms
Torque at 3000 rpm	C3	Nm	--	--	25.9	--	--	25.9
Power at 3000 rpm	P3	W	--	--	8133	--	--	8133
Current at 3000 rpm	I3	A	--	--	26.2 rms	--	--	14.6 rms

(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 26 kg



1 Continuous duty

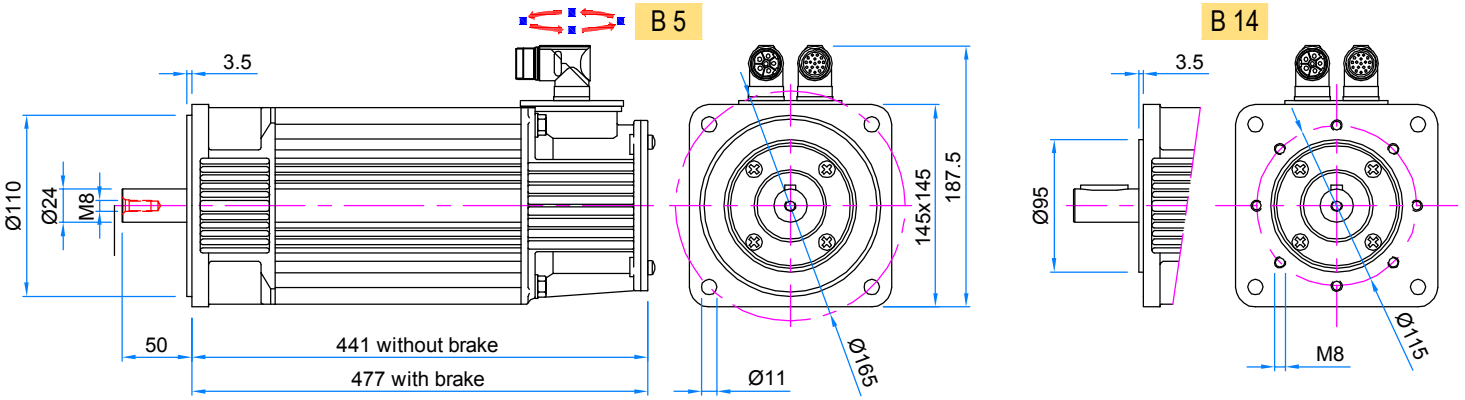
2 Intermittent duty

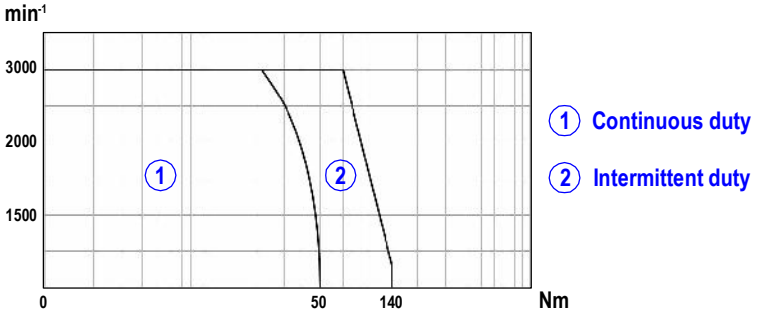
Brushless servomotor BLR / BLE 07.52

50Nm

Type	symbols	units	BLR / BLE 07.52					
			157 rad/s 230 Vac	210 rad/s 230 Vac	314 rad/s 230 Vac	157 rad/s 400 Vac	210 rad/s 400 Vac	314 rad/s 400 Vac
Winding code	- -	- -	K120	K90	K60	K200	K150	K100
Continuous stall torque	Cn	Nm	50	50	50	50	50	50
Continuous stall current	In	A	26 rms	35.5 rms	50 rms	14 rms	19.3 rms	28.9 rms
Peak stall torque	Cp	Nm	140	140	140	140	140	140
Peak current	Ip	A	73 rms	99 rms	140 rms	39 rms	54 rms	81 rms
Torque constant	Kt	Nm/A	1.92 rms	1.41 rms	1 rms	3.56 rms	2.6 rms	1.73 rms
Rated speed	n	rpm	1500	2000	3000	1500	2000	3000
Befm rated speed	E	V	175	173	183	322	312	315
Voltage constant	Ke	Vs/rad	1.11 rms	0.82 rms	0.58 rms	2.05 rms	1.5 rms	1 rms
Terminals resistance	Rm	Ohm	0.36	0.2	0.09	0.96	0.54	0.24
Terminals inductance	Lm	mH	3.3	1.9	0.83	9.8	5.5	2.45
Moment of inertia	J	mkgm²	2.42	2.42	2.42	2.42	2.42	2.42
Torque at 1500 rpm	C1	Nm	43	43	43	43	43	43
Power at 1500 rpm	P1	W	6751	6751	6751	6751	6751	6751
Current at 1500 rpm	I1	A	22.4 rms	30.5 rms	43 rms	12.1 rms	16.5 rms	24.8 rms
Torque at 2000 rpm	C2	Nm	--	40	40	--	40	40
Power at 2000 rpm	P2	W	--	8400	8400	--	8400	8400
Current at 2000 rpm	I2	A	--	28.4 rms	40 rms	--	15.4 rms	23.2 rms
Torque at 3000 rpm	C3	Nm	--	--	35.7	--	--	35.7
Power at 3000 rpm	P3	W	--	--	11210	--	--	11210
Current at 3000 rpm	I3	A	--	--	35.7 rms	--	--	20.6 rms

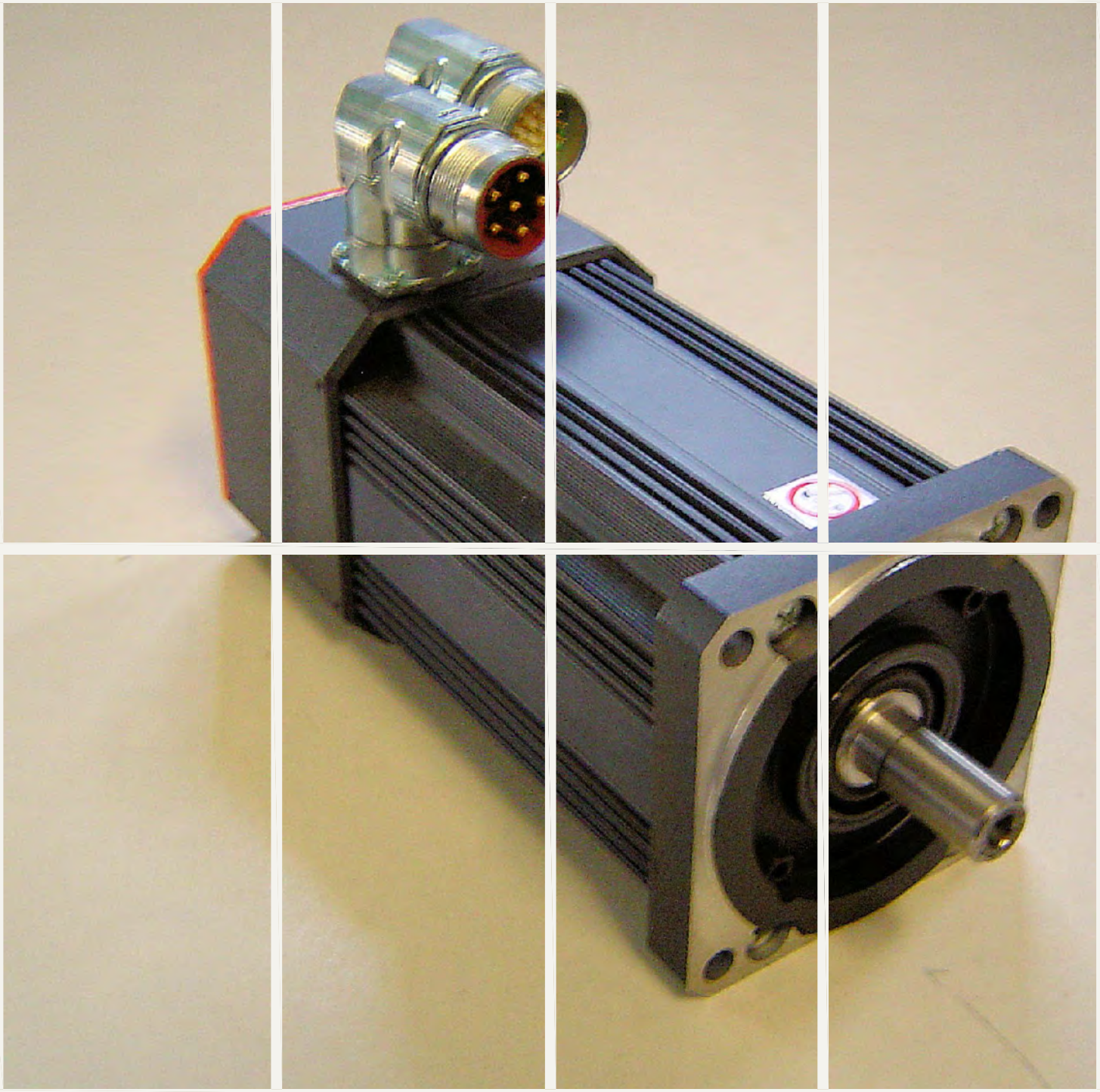
(1) at ΔT=100°C with motor on aluminium plate 400x400x20mm and ambient temperature 20°C Tolerance ±10% Motor weight: 28.5 kg





1 Continuous duty

2 Intermittent duty



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