

Bürstenbehaftete Gleichstrommotorregler RC

TTB-RC020

- Eigenschaften
- Ausstattung
- Abmessungen
- Verkabelung



TTB-RC040

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- Verkabelung

TTB-RC020 - TTB-RC040

Eigenschaften

- Transistor bidirectional drive with regenerative current system.
- Following settings can be adjusted (by built in trimmers):
 - acceleration ramp: 0.5 - 10 sec
 - deceleration ramp: 0.5 - 10 sec
 - current limit 100% - about 30%
- Room temperature: 0°C / +40°C (alarm below zero)
- LED for system diagnosis
- Switching frequency: 16kHz
- Covered
- 5-10 kΩ Speed pot. or 0-10 Vdc external signal for speed regulation
- Variable current limit
- Thermal sensor for protection

Modello Model number	Tensione di alimentazione DC input voltage [Vdc]	Tensione di uscita Motor voltage [Vdc]*	Corrente di uscita nominale DC load current [A]	Corrente di picco motore Maximum load current [A]**	Campo di alimentazione Power supply range [Vdc]
RC020	12 ÷ 24	0 ÷ Vin	20	60 (4 sec)	10 ÷ 30
RC040	12 ÷ 24	0 ÷ Vin	40	120 (1 sec)	10 ÷ 30

* The drive reduces the rated voltage of 1-2 Vdc. This is normal and physiological. If 24 ÷ 12 VDC output is required under all load conditions, it is advisable to supercharge a couple of volts.

** A timer imposes a limit with a temporary hyperbolic performance, which means the more current is requested, the less time is permitted with this current before the drive is limited. When the current reaches its peak (3 times the rated value) the drive will work for a few seconds.

Ausstattung

 TTB-RC020
 TTB-RC040

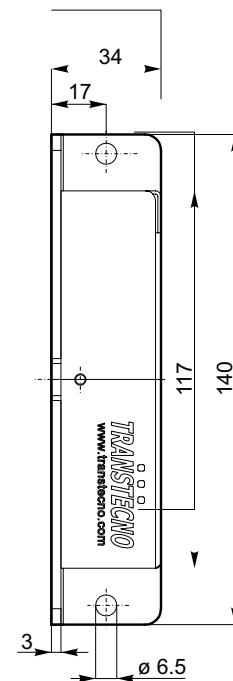
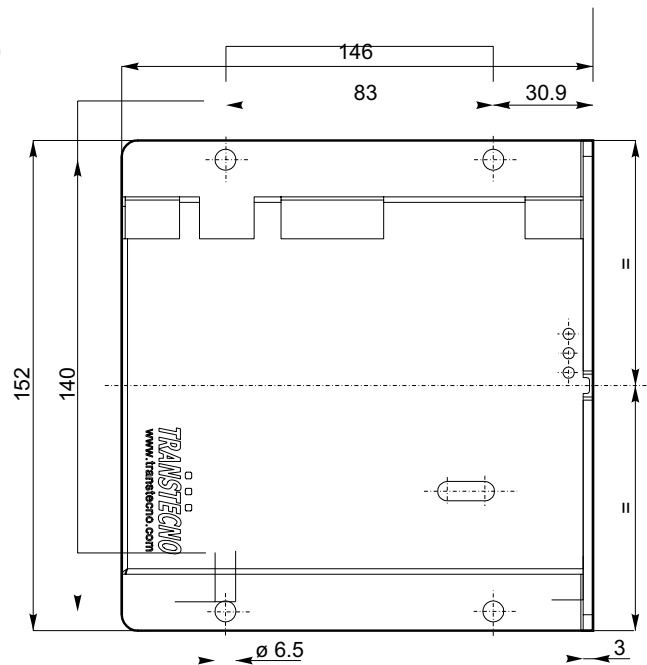
Selection Trimmer ACCEL, DECEL, CURRENT LIMIT	■
2 contacts : forward and reverse	■
Speed setpoint reference	■
3 LEDs signals	■
Command signal for possible negative electromagnetic brake	■
Arranged for 2 different ways of mounting	■
Memory storage and report of allarm	■
2 auxiliary digital inputs	■*
Alarm output relays	■

*one committed by reset

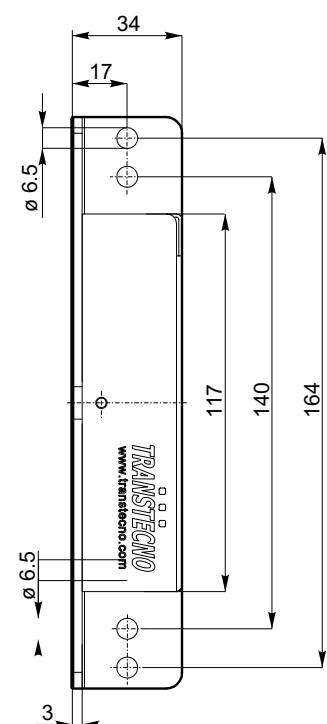
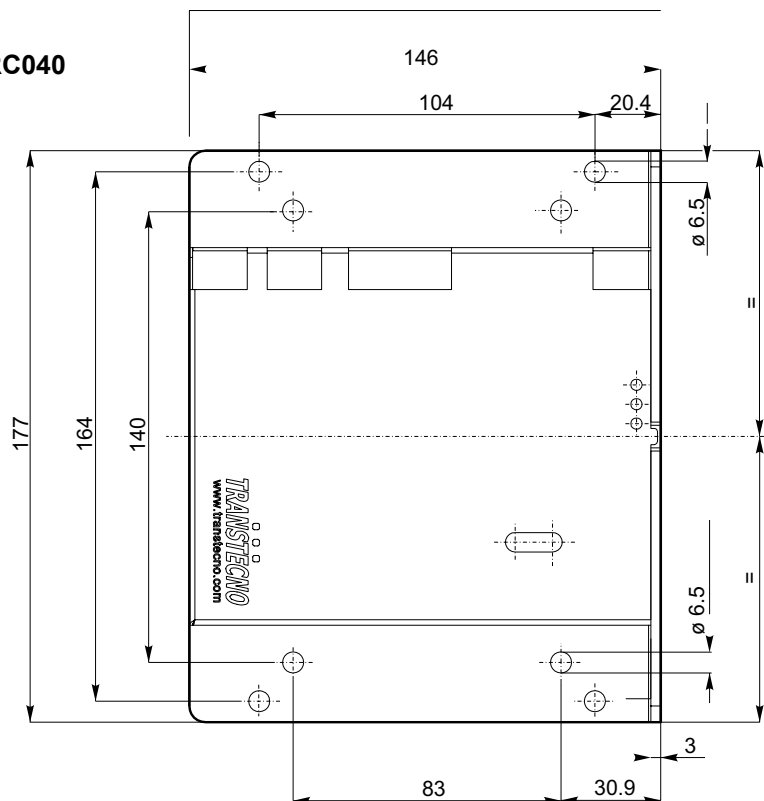
TTB-RC020 - TTB-RC040

Abmessungen

TTB-RC020

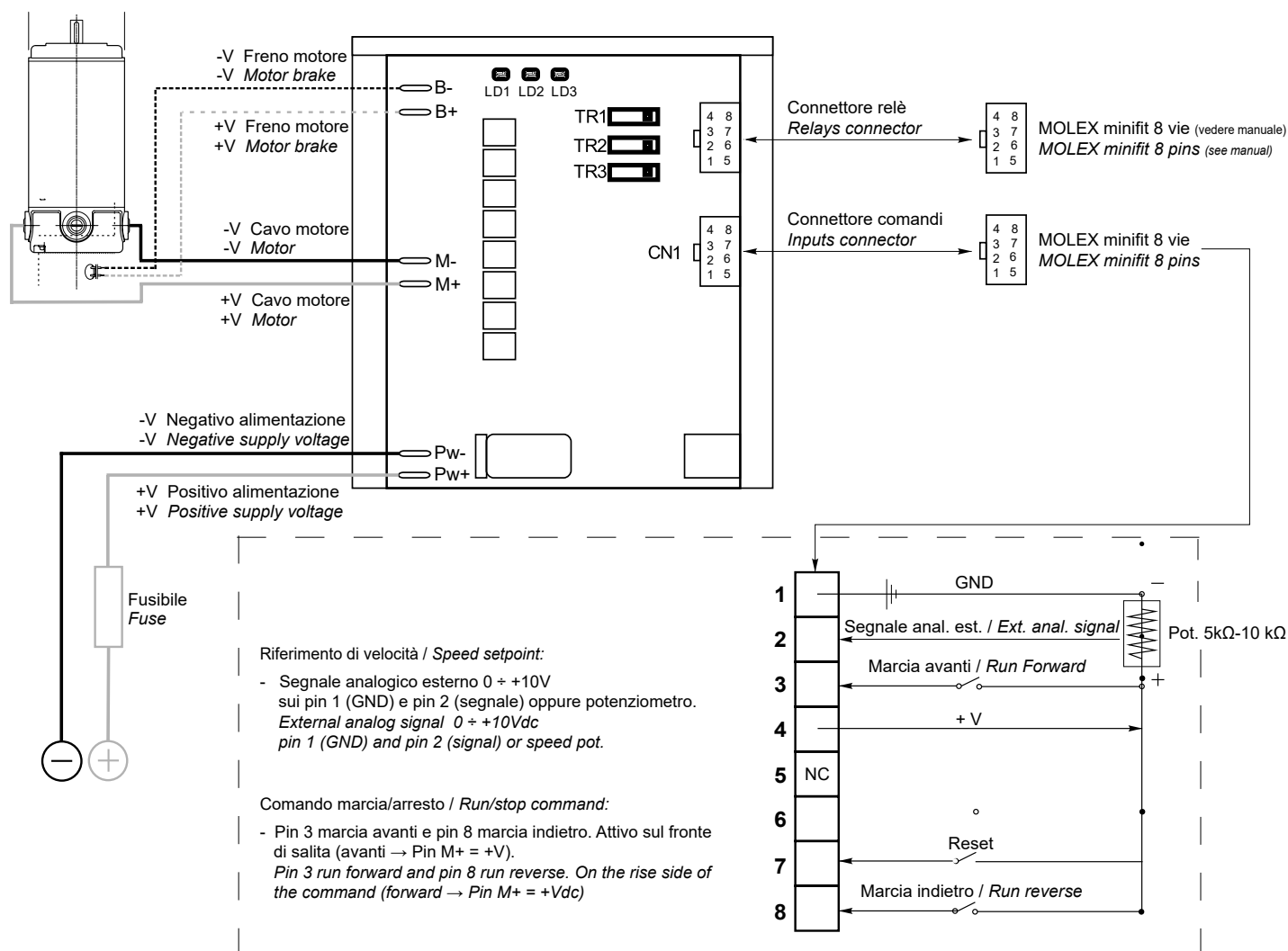


TTB-RC040



TTB-RC020 - TTB-RC040

Verkabelung

**Fuse:**

150-200 % rated motor current. Max 3 times rated current of the drive (trip time in few seconds).

Multiturn trimmers:

TR1: Acceleration time: from 0.5 to 10 sec.

TR2: Current limitation: rated current limited from 100% to about 30% (peak current 3 times the selected limited current).

TR3: Deceleration time: from 0.5 to 10 sec.

LED:

LD1: ON when the drive runs under current limitation (motor requires more than the rated current and drive supplies only limited current).

LD2: Status: quick continuous flash = drive ok, slow coded flash = fault).

LD3: Power ON

Bürstenbehaftete Gleichstrommotoren EC

TTB-EC020.024

TTB-EC035.024

TTB-EC050.048

TTB-EC070.048

TTB-EC100.048

TTB-EC180.048

TTB-EC250.048

TTB-EC350.048

TTB-EC600.048



TTB-EC020.012 - TTB-EC020.024-2W

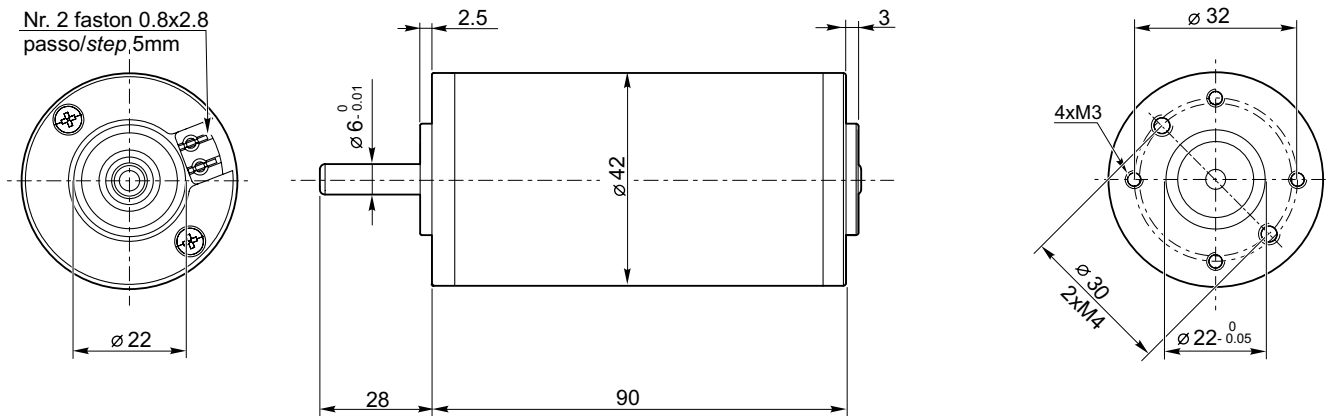
Eigenschaften

Construction	Tubular, without fan
Size	Ø 42 mm
Power	30 W S2 (20 W S1)
Magnets	2
Bearings	Ball bearing
Mounting holes	4
Power supply	Low voltage, 12 or 24 Vdc
Brushes	2 brushes made of graphite/copper composite
Electric cable	Faston terminals (0.8 x 2.8 mm)
Options	EMC filter
	Magnetic encoder max 2 ppr, Max. 2 channels

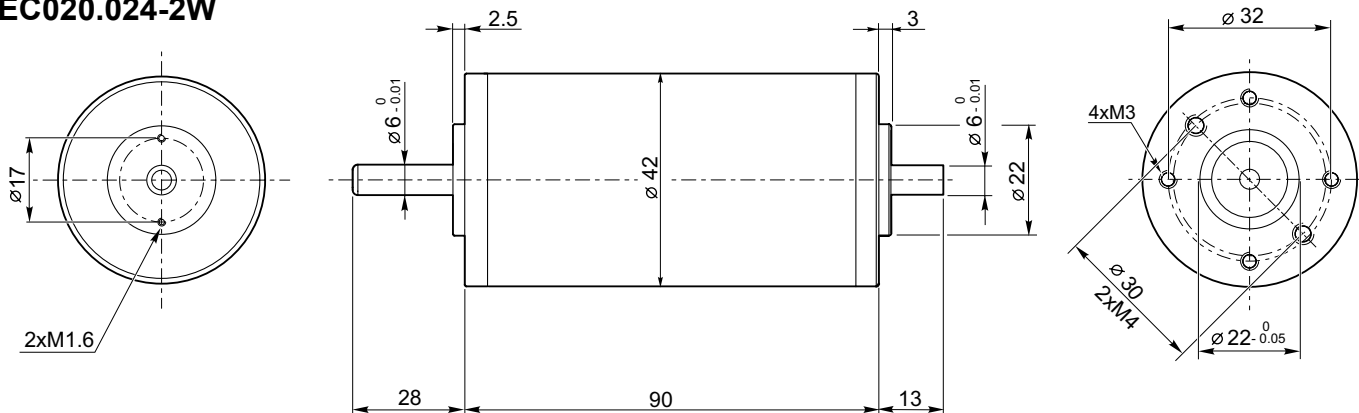
Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC020.012	S1	20	12	2.6	B	1	0.06	2850	20	0.4
	S2 6%	30		3.5			0.08			
EC020.024-2W	S1	20	24	1.4			0.06			
	S2 6%	30		1.9			0.08			

Abmessungen

EC020.012



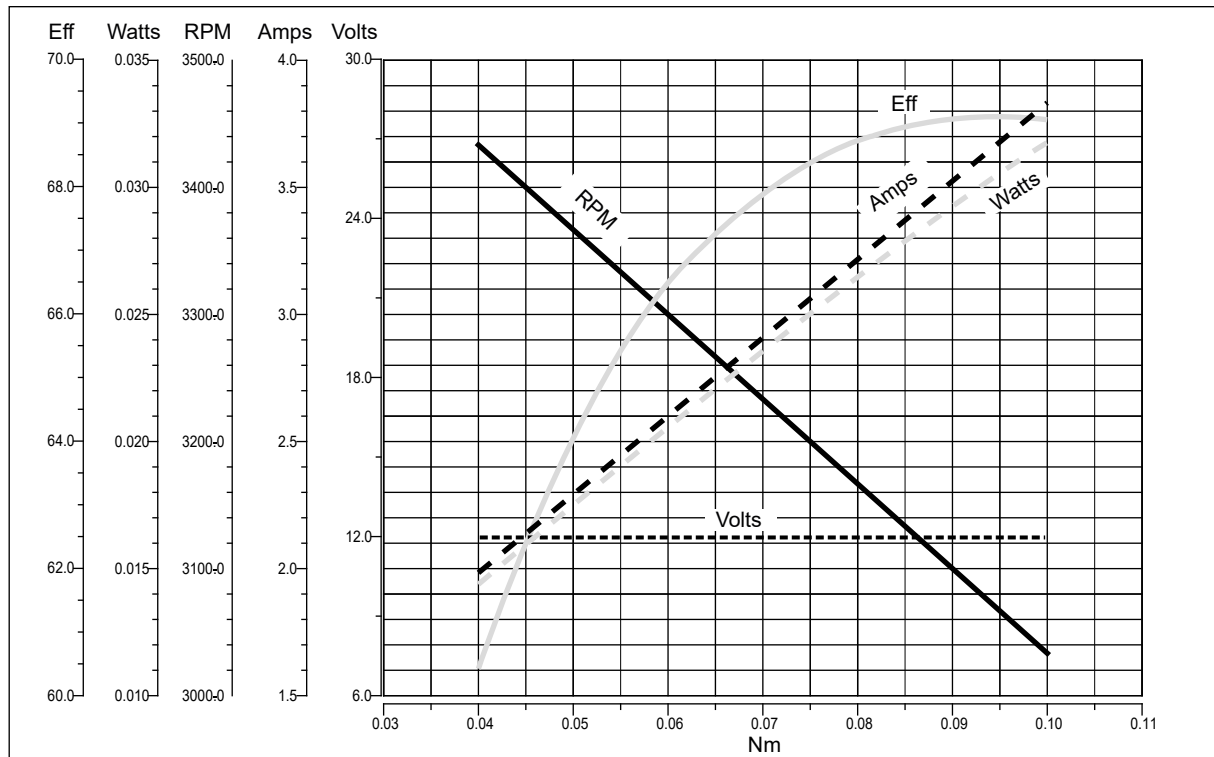
EC020.024-2W



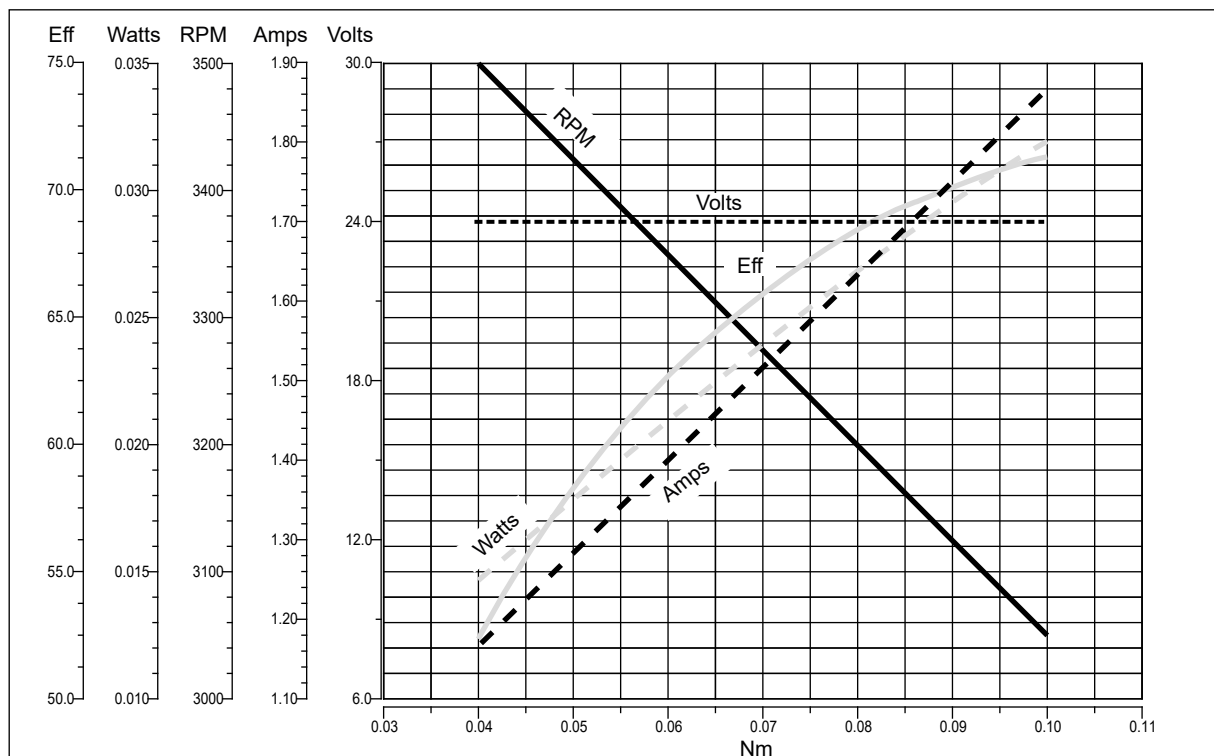
TTB-EC020.012 - TTB-EC020.024-2W

Performance

TTB-EC020.012



TTB-EC020.024



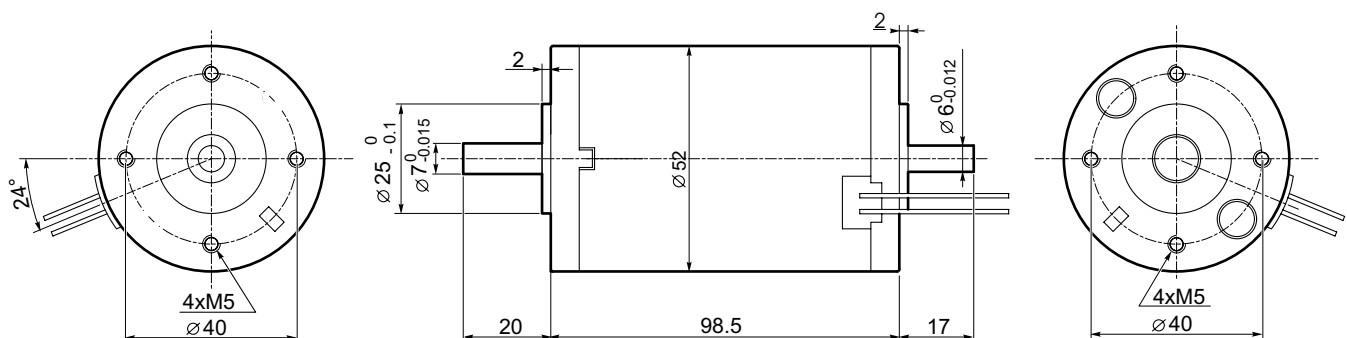
TTB-EC035.012 - TTB-EC035.024

Eigenschaften

Construction	Tubular, without fan
Size	Ø 52 mm
Power	55 W S2 (35 W S1)
Magnets	2
Bearings	Ball bearings
Mounting holes	4
Power supply	Low voltage, 12 or 24 Vdc
Brushes	2 inside brushes made of graphite/copper composite
Electric cable	Length: 200 mm
Options	Magnetic encoder max 1 ppr, Max. 2 channels

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC035.012	S1	35	12	5.2	F	1	0.11	3000	20	0.8
	S2 9%	55		8.0			0.18			
EC035.024	S1	35	24	2.6	F	1	0.11		20	0.8
	S2 9%	55		4.0			0.18			

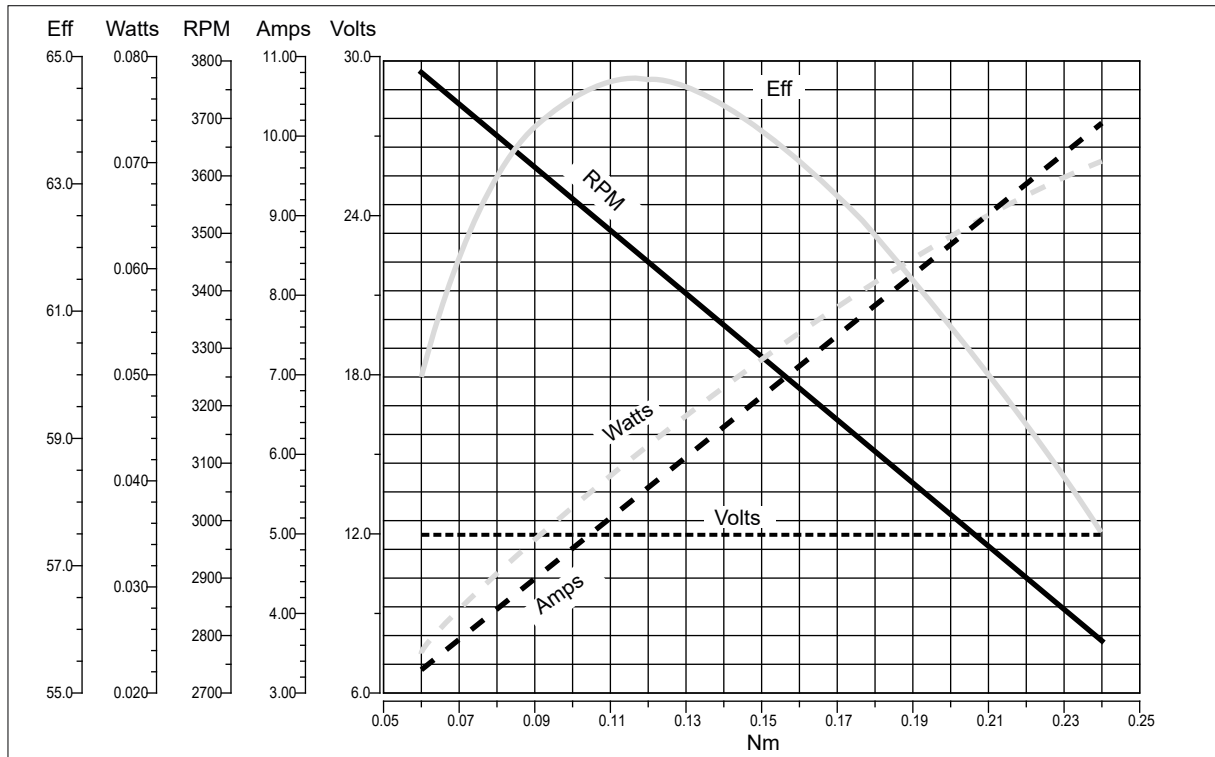
Abmessungen



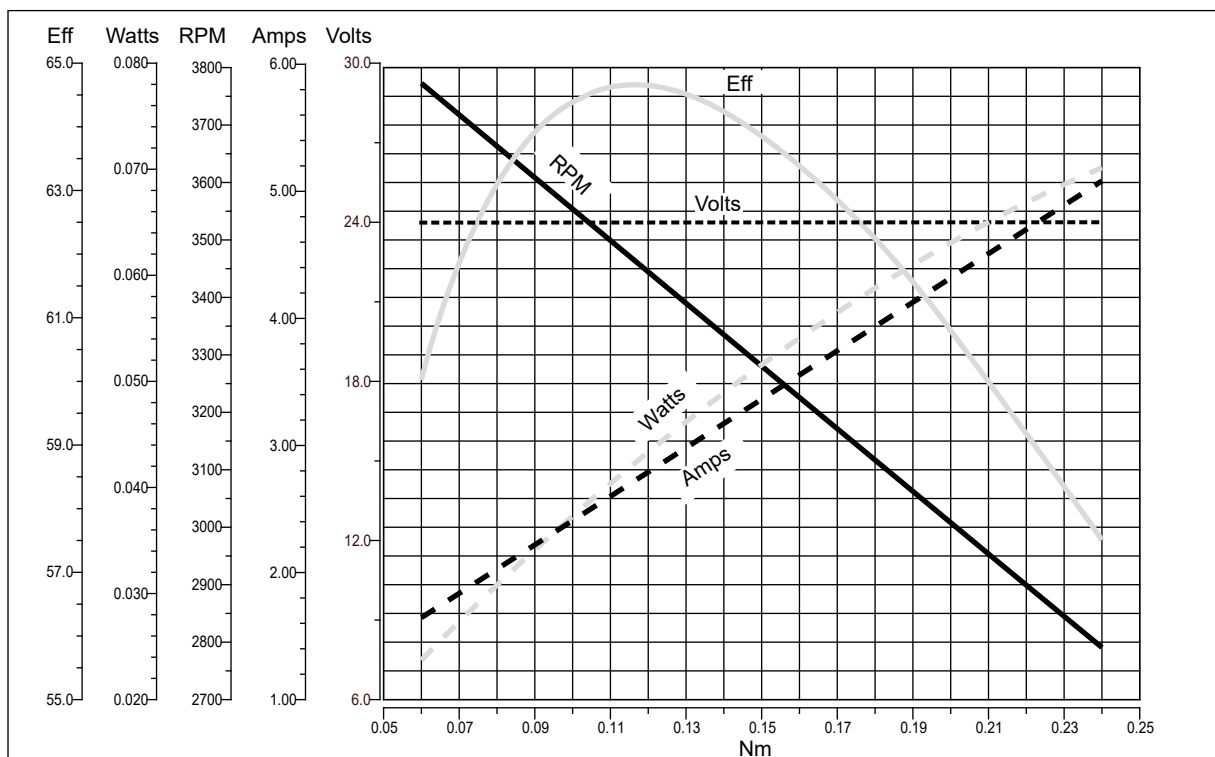
TTB-EC035.012 - TTB-EC035.024

Performance

TTB-EC035.012



TTB-EC035.024



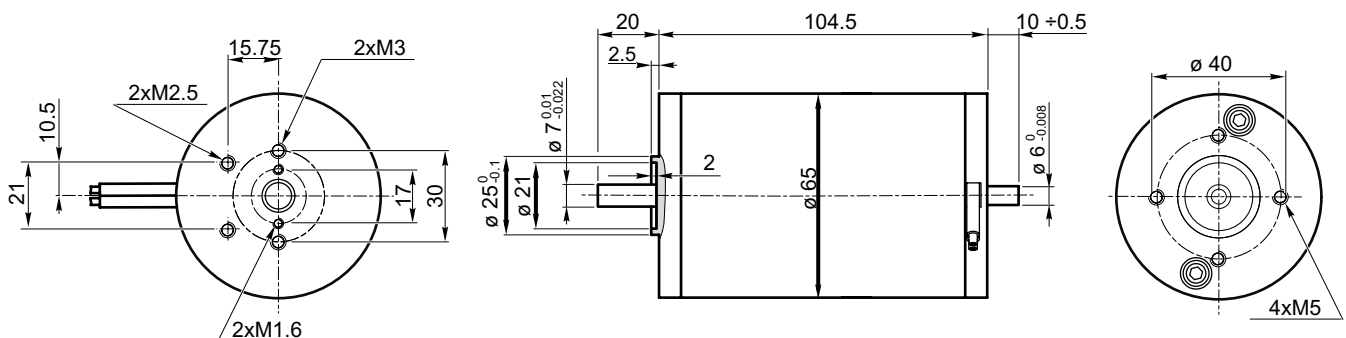
TTB-EC050.012-2W - TTB-EC050.024-2W

Eigenschaften

Construction	Tubular, without fan
Size	Ø 65 mm
Power	70 W S2 (50 W S1)
Magnets	2
Bearings	Ball bearings
Mounting holes	4
Power supply	Low voltage, 12 or 24 Vdc
Brushes	2 inside brushes made of graphite/copper composite
Electric cable	Length: 200 mm
Rear Shaft	Standard

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC050.12-2W	S1	50	12	6.5	F	1	0.16	3000	20	1.2
	S2 30%	70		9.0			0.22			
EC050.024-2W	S1	50	24	3.2			0.16			
	S2 30%	70		4.5			0.22			

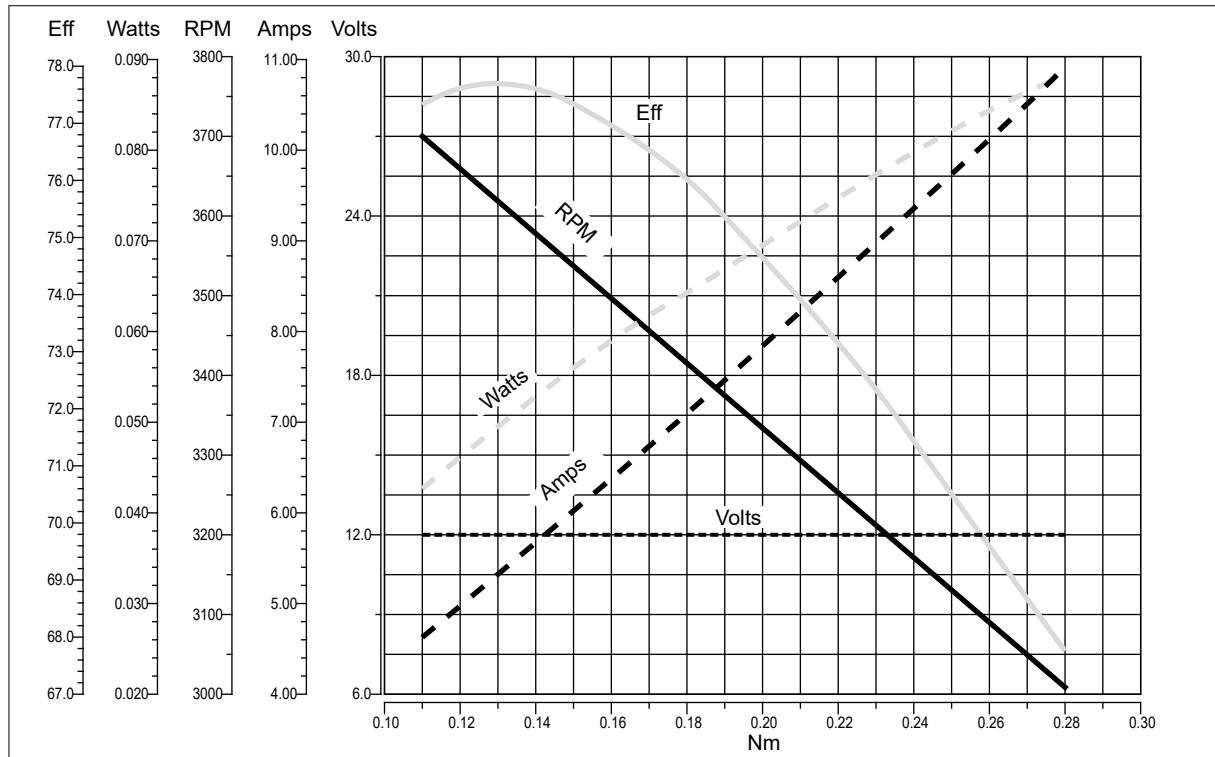
Abmessungen



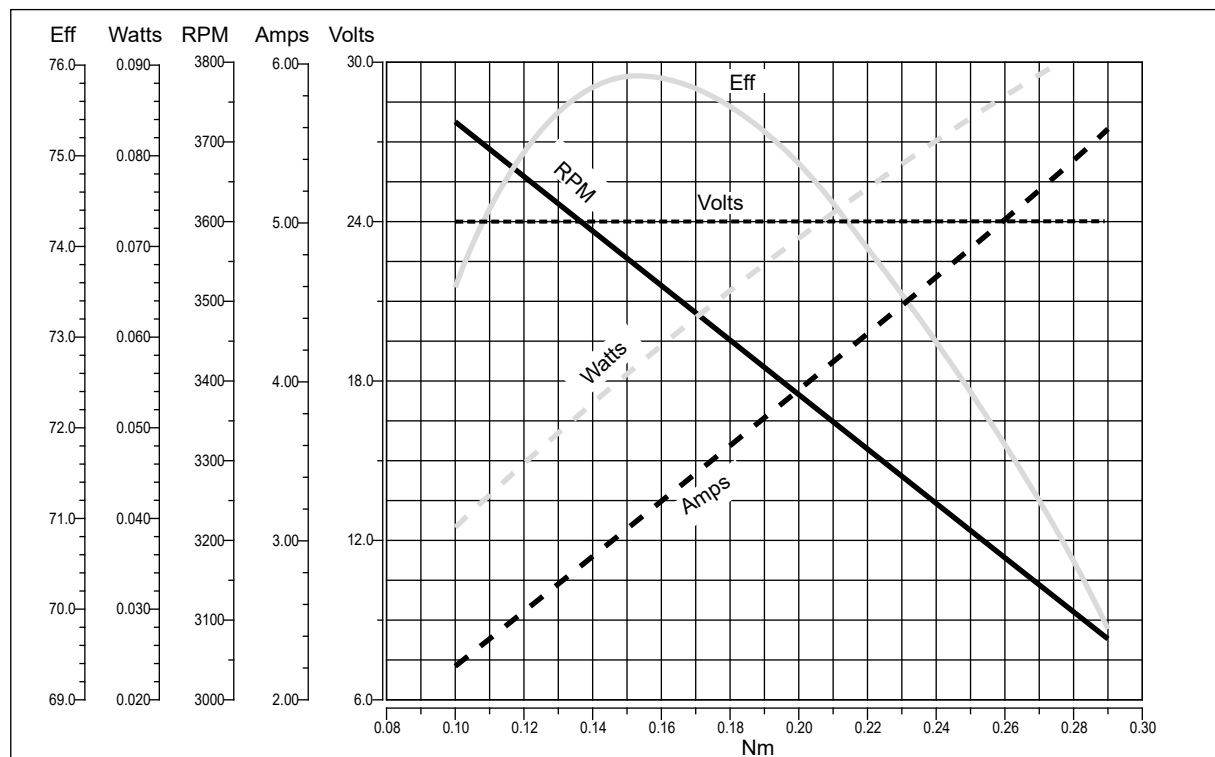
TTB-EC050.012-2W - TTB-EC050.024-2W

Performance

TTB-EC050.012



TTB-EC050.024

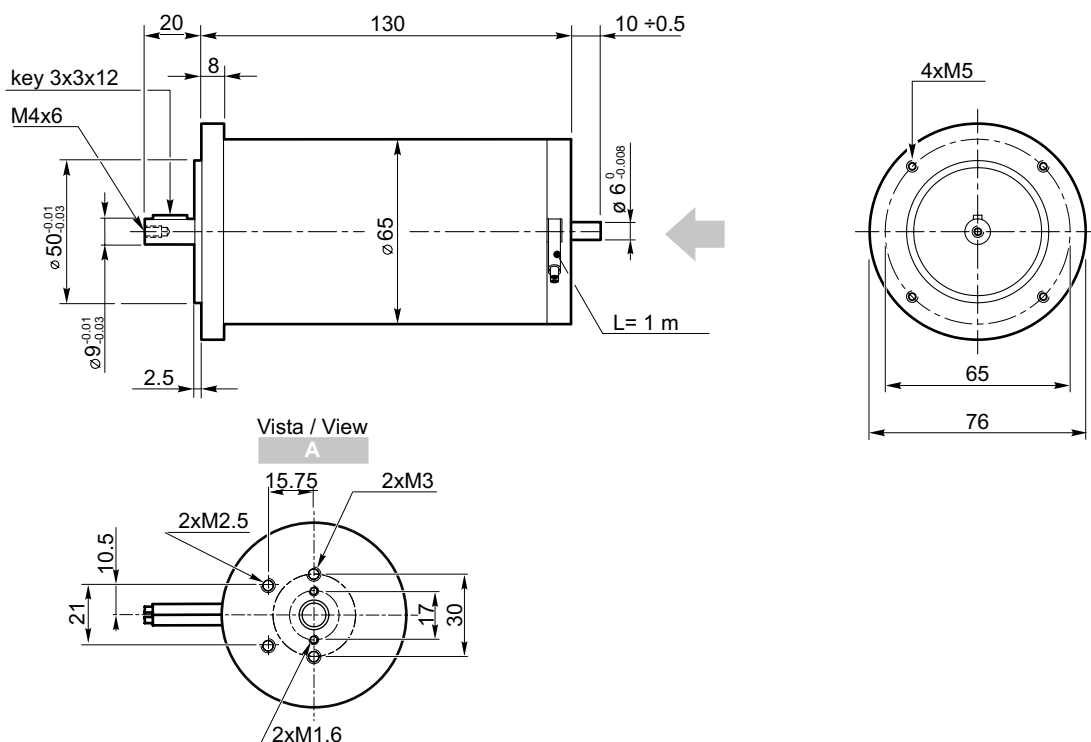


Eigenschaften

<i>Construction</i>	<i>Tubular, without fan</i>
<i>Size</i>	<i>Ø 65 mm</i>
<i>Power</i>	<i>100 W S2</i>
<i>Magnets</i>	<i>2</i>
<i>Bearings</i>	<i>Ball bearings</i>
<i>Mounting holes</i>	<i>4</i>
<i>Power supply</i>	<i>Low voltage, 12 or 24 Vdc</i>
<i>Brushes</i>	<i>2 inside brushes made of graphite/copper composite</i>
<i>Electric cable</i>	<i>Length: 1000 mm</i>

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC070.012-2W	S1	70	12	8.4	F	1	0.22	3000	20	1.7
	S2 30%	100		11.8			0.31			
EC070.024-2W	S1	70	24	4.2			0.22			
	S2 30%	100		5.9			0.31			

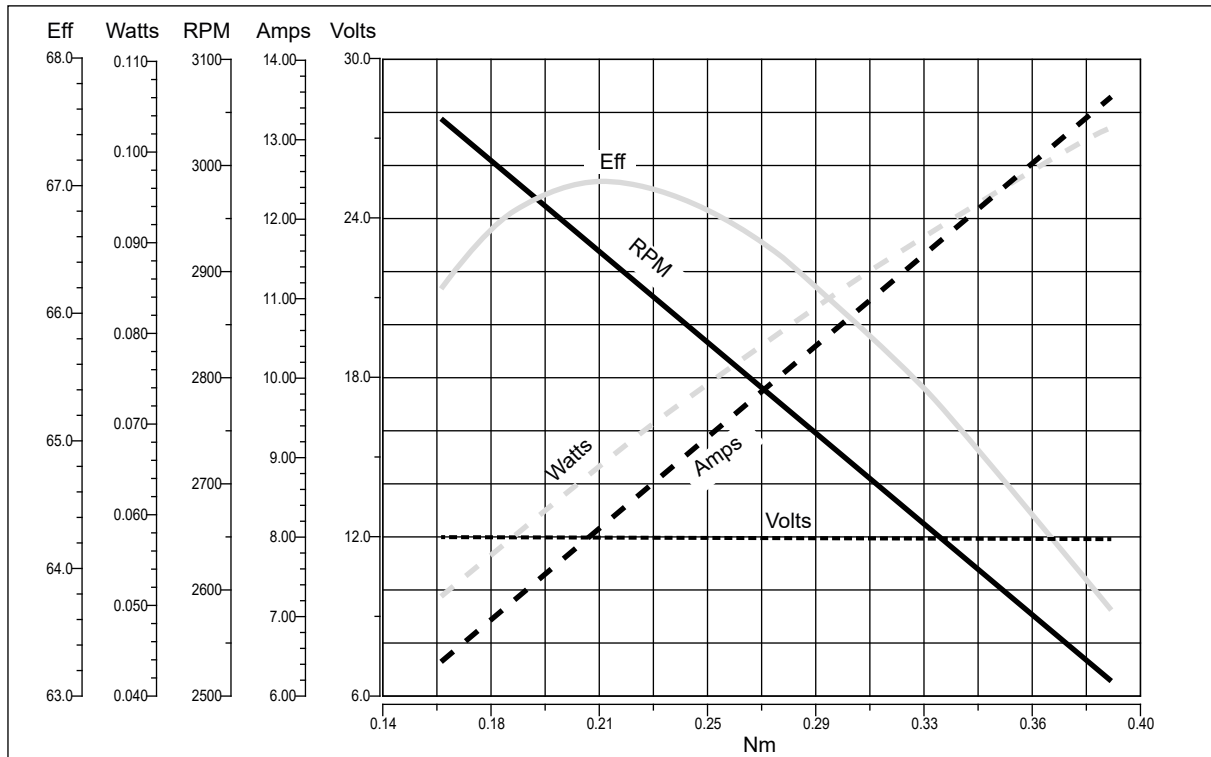
Abmessungen



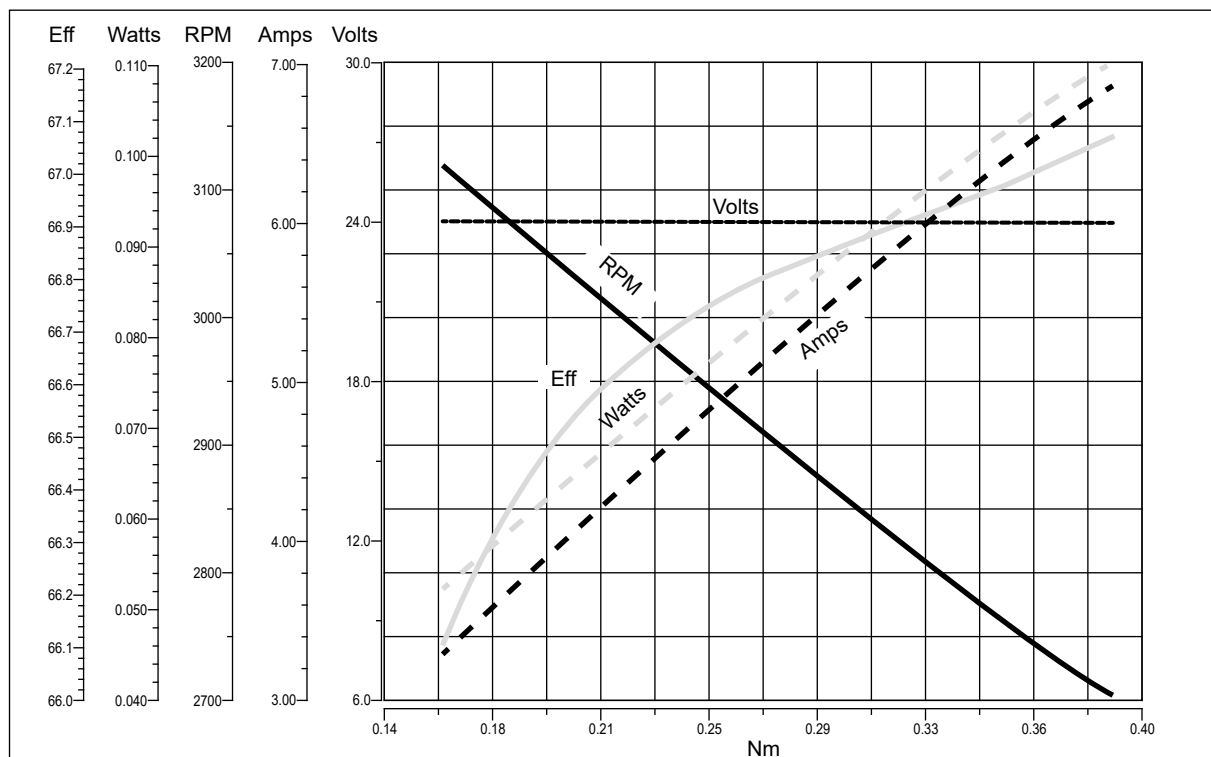
TTB-EC070.012-2W - TTB-EC070.024-2W

Performance

TTB-EC070.012



TTB-EC070.024



TTB-EC100.012 - TTB-EC100.024 - TTB-EC100.024-2W

Eigenschaften

Construction	Tubular, without fan
Size	Ø 80 mm
Power	140 W S2 (100 W S1)
Magnets	2
Bearings	Ball bearings
Mounting holes	4
Power supply	Low voltage, 12 or 24 Vdc
Brushes	2 inside brushes made of graphite/copper composite
Brushes size	LxWxH = 17.1 x 6.5 x 16.7 mm
Electric cable	Length: 1000 mm
Rear shaft	Standard only EC100.24E

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC100.120	S1	100	12	12	F	1	0.31	3000	40	2.7
	S2 25%	140		16.8			0.43			
EC100.024	S1	100	24	6			0.31			
	S2 25%	140		8.4			0.43			
EC100.024-2W	S1	100		6			0.31		20	
	S2 25%	140		8.4			0.43			

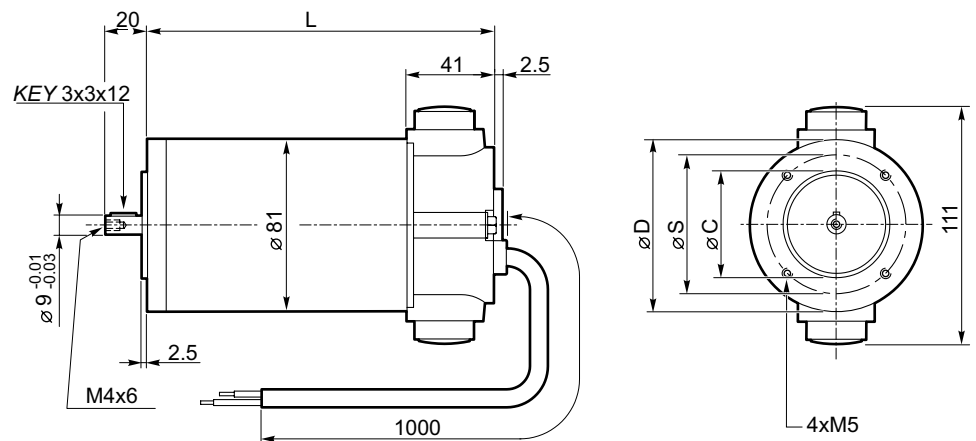
Abmessungen

EC100.012

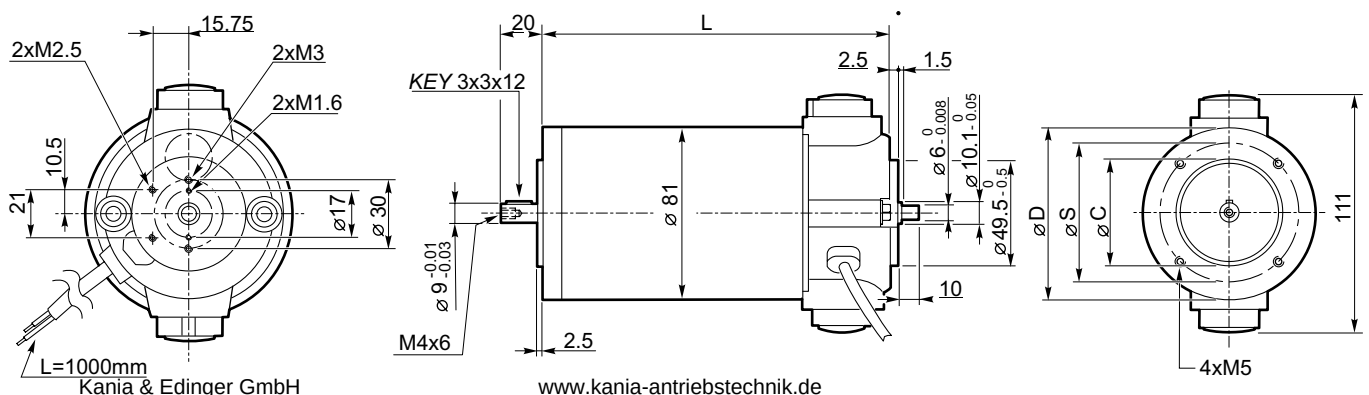
EC100.024

56 B14	
L	153
D	80
S	65
C (-0.03 / -0.01)	50
63 B14	
L	155
D	90
S	75
C (-0.03 / -0.01)	60

* Use sleeve 9/11



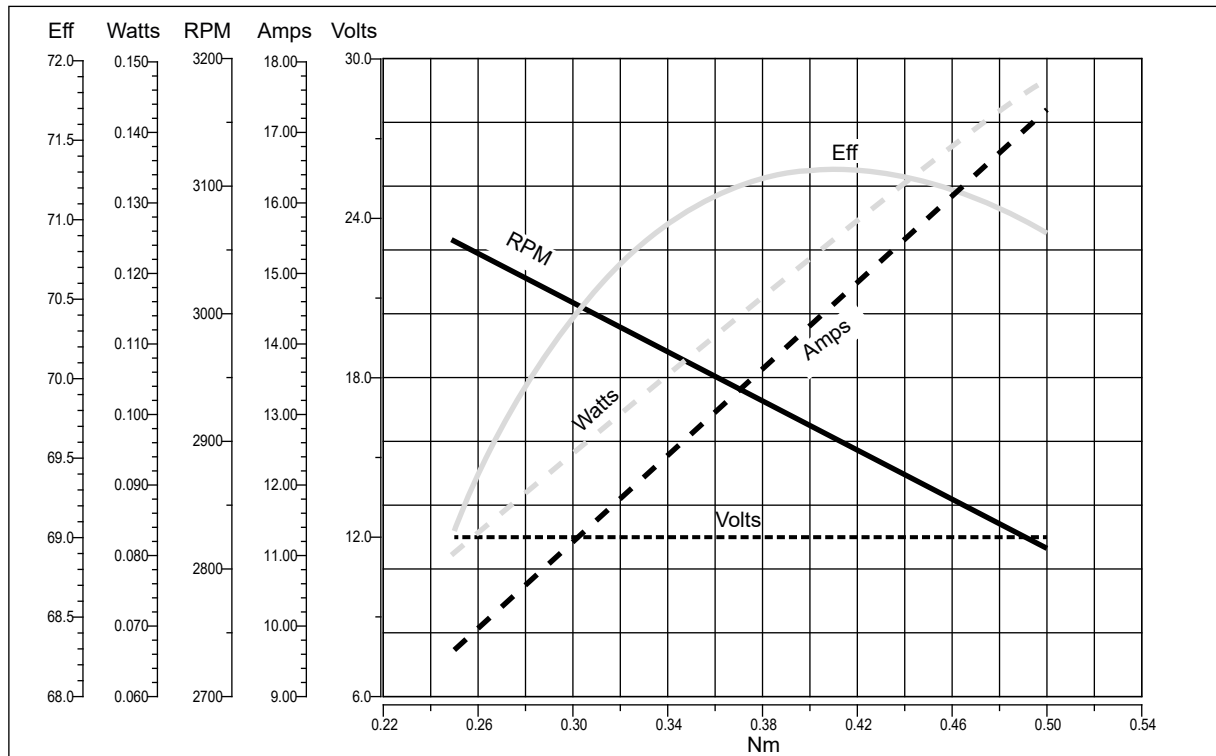
EC100.024-2W



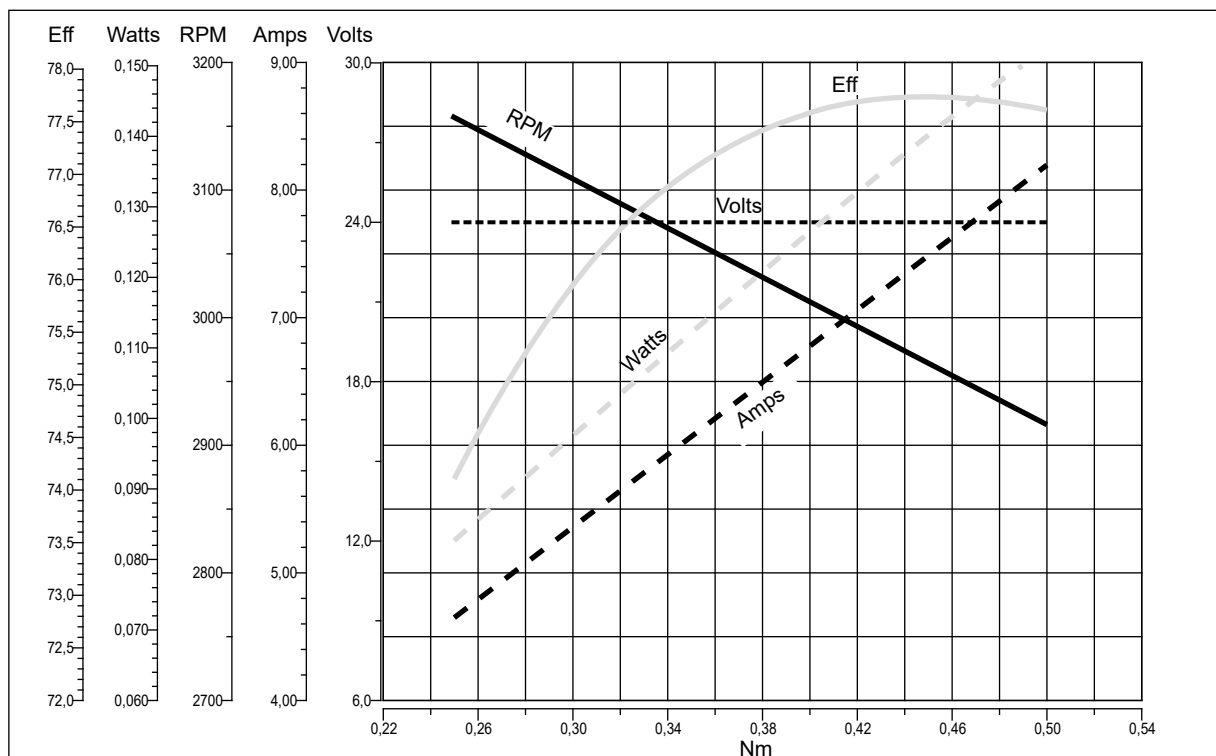
TTB-EC100.012 - TTB-EC100.024 - TTB-EC100.024-2W

Performance

TTB-EC100.012



TTB-EC100.024



TTB-EC180.012 - TTB-EC180.024 - TTB-EC180.024-2W

Eigenschaften

Construction	Tubular, without fan
Size	Ø 80 mm
Power	250 W S2 (180 W S1)
Magnets	2
Bearings	Ball bearings
Mounting holes	4
Power supply	Low voltage, 12 or 24 Vdc
Brushes	2 inside brushes made of graphite/copper composite
Brushes size	LxPxH = 17.1 x 6.5 x 16.7 mm
Electric cable	Length: 1000 mm
Rear shaft	Standard only EC180.24E

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC180.012	S1	180	12	21.5	F	1	0.57	3000	40	3.4
	S2 25%	250		30			0.8			
EC180.024	S1	180	24	10.8			0.57			
	S2 25%	250		15			0.8			
EC180.024-2W	S1	180		10.8			0.57	20		
	S2 25%	250		15			0.8			

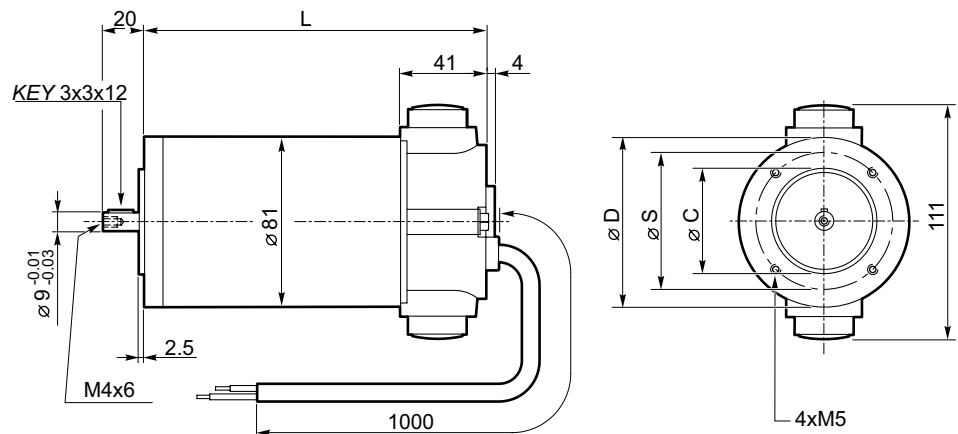
Abmessungen

EC180.012

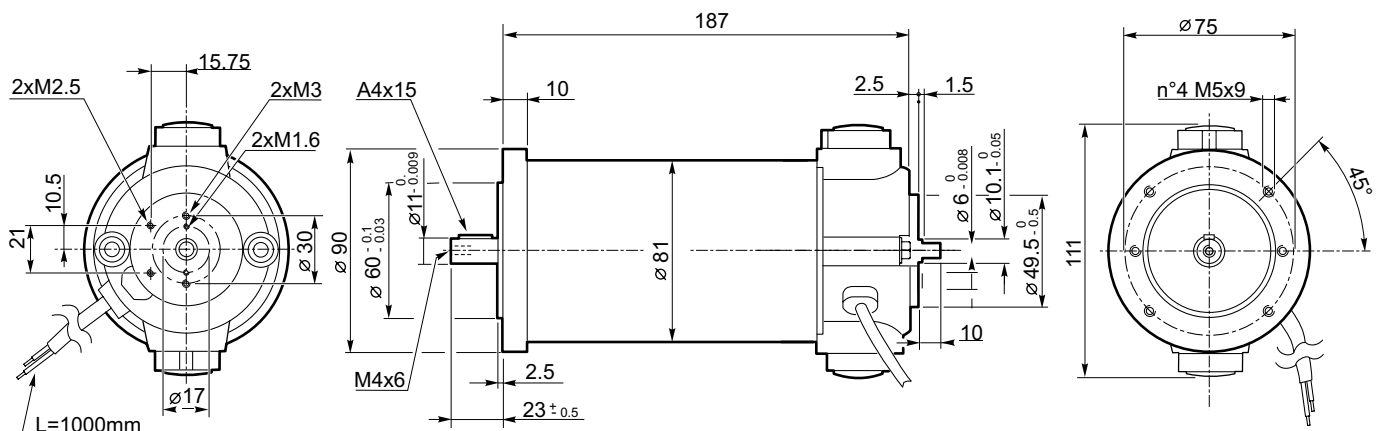
EC180.024

56 B14	
L	185
D	80
S	65
C (-0.03 / -0.01)	50
63 B14	
L	187
D	90
S	75
C (-0.03 / -0.01)	60

* Use sleeve 9/11



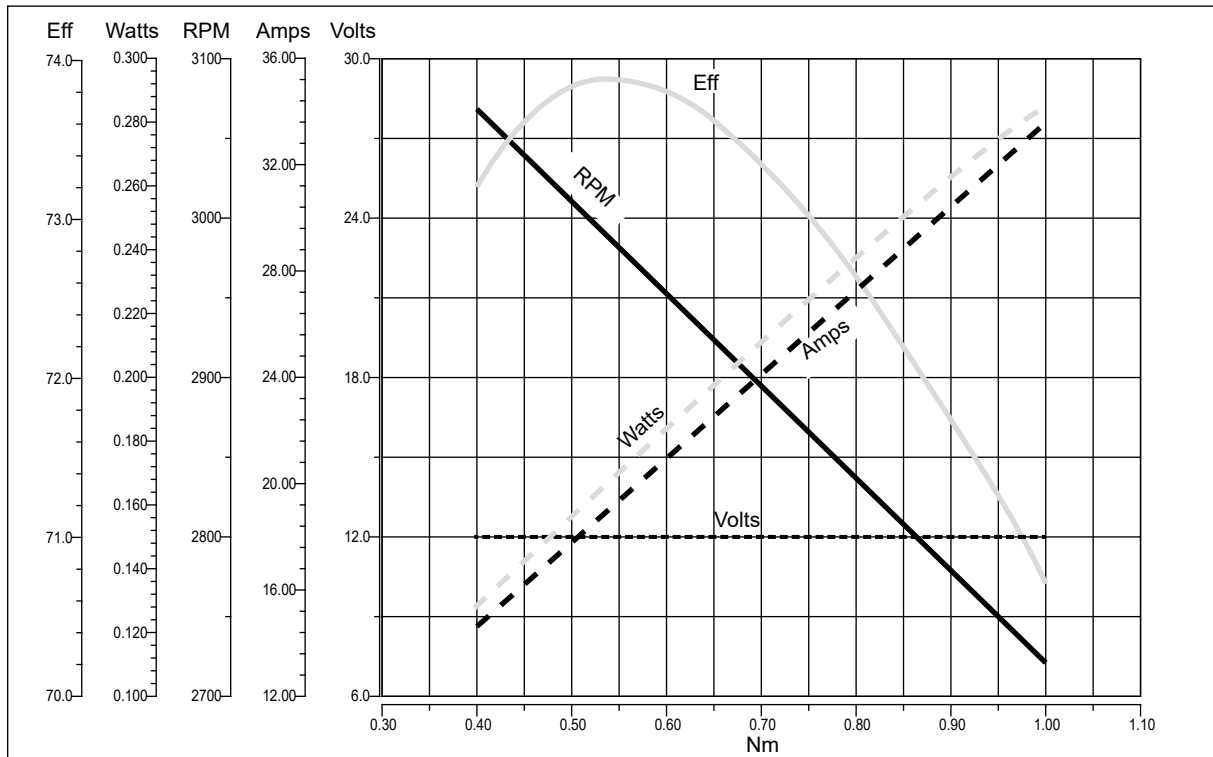
EC180.024-2W



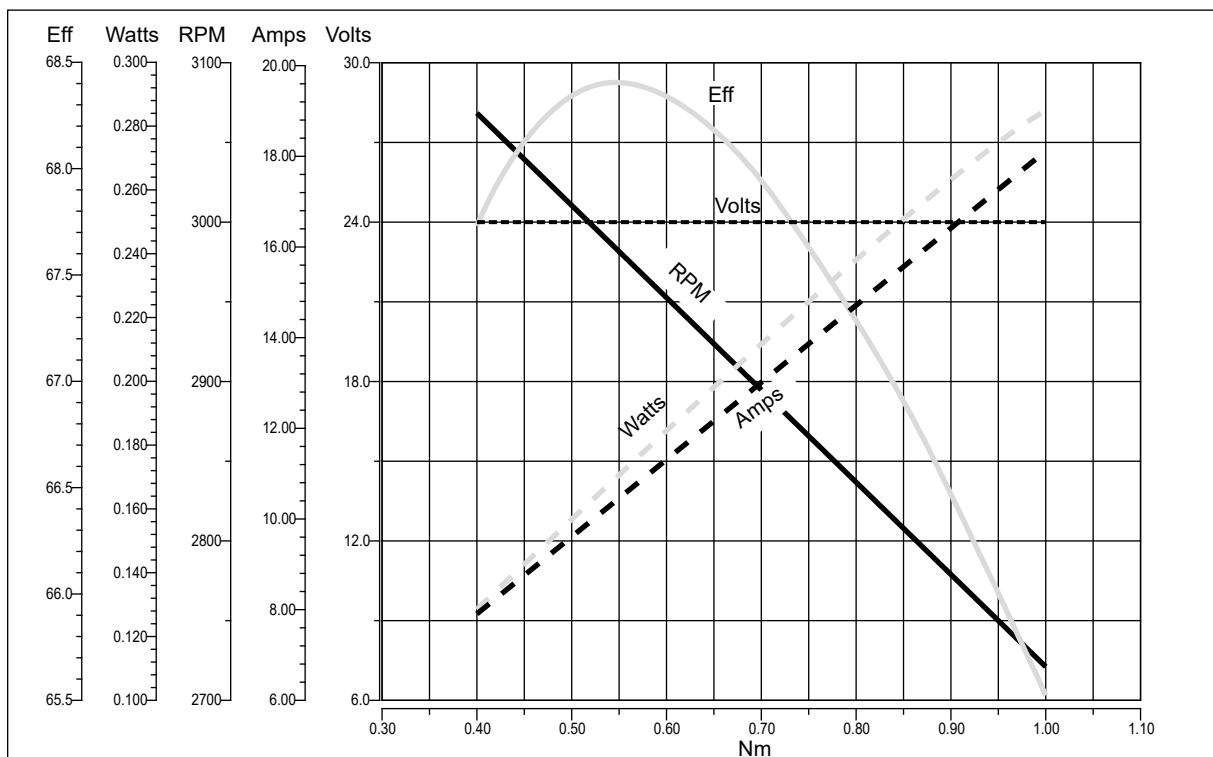
TTB-EC180.012 - TTB-EC180.024 - TTB-EC180.024-2W

Performance

TTB-EC180.012



TTB-EC180.024



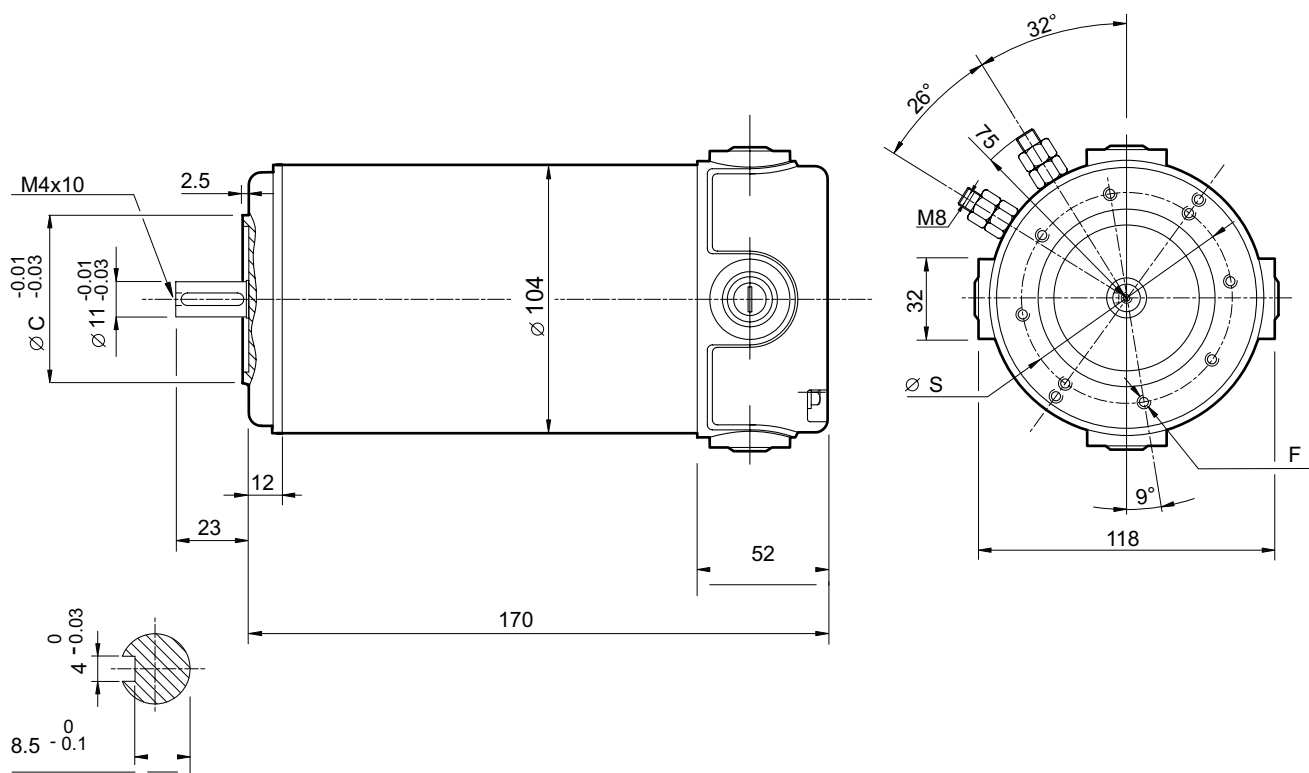
TTB-EC250.012 - TTB-EC250.024

Eigenschaften

Construction	Tubular, without fan
Size	Ø 104 mm
Power	350 W S2 (250 W S1)
Magnets	4
Bearings	Ball bearings
Mounting holes	8
Power supply	Low voltage, 12 or 24 Vdc
Brushes	4 inside brushes made of graphite/copper composite
Brushes size	LxPxH = 18.9 x 9.5 x 16.7 mm
Leads terminals	2, with double nut

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC250.012	S1	250	12	30	F	1	0.8	3000	40	4.15
	S2 25%	350		38.5			1.12			
EC250.024	S1	250	24	15			0.8			
	S2 25%	350		20.5			1.12			

Abmessungen



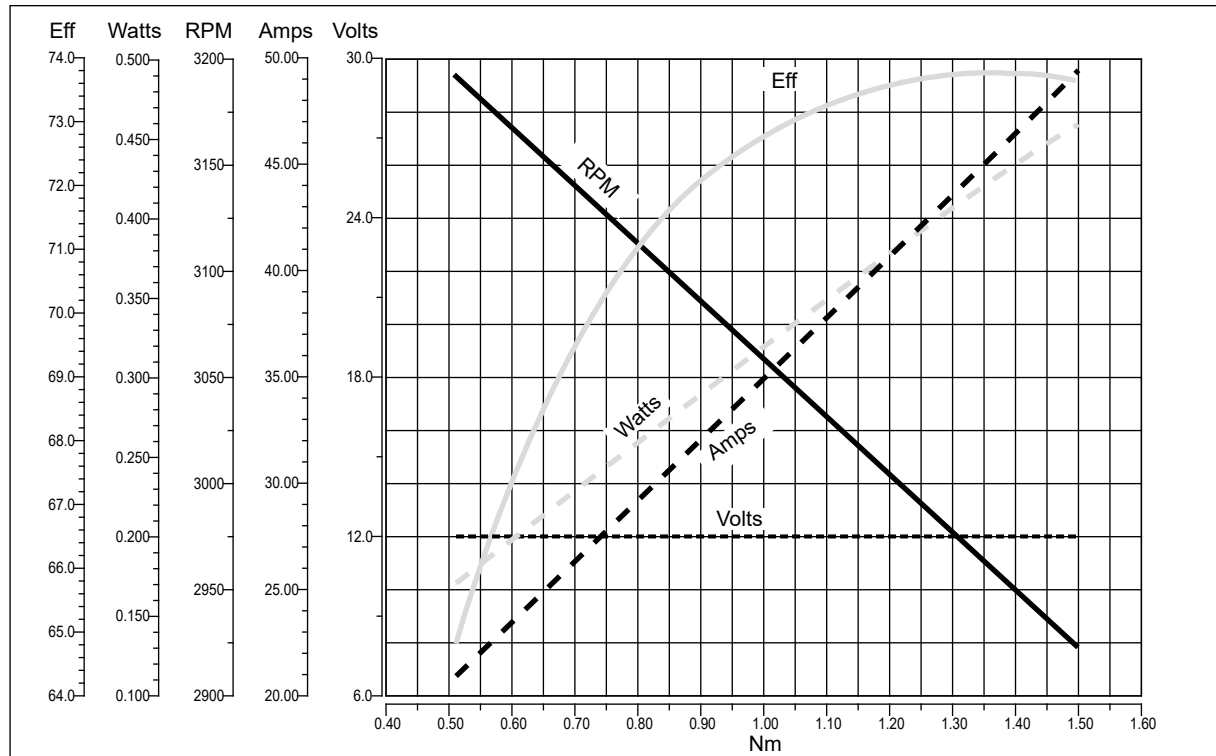
	63 B14	71 B14*
S	75	85
C (-0.03 / -0.01)	60	70
F	8 - M5	8 - M6

* Use sleeve 11/14

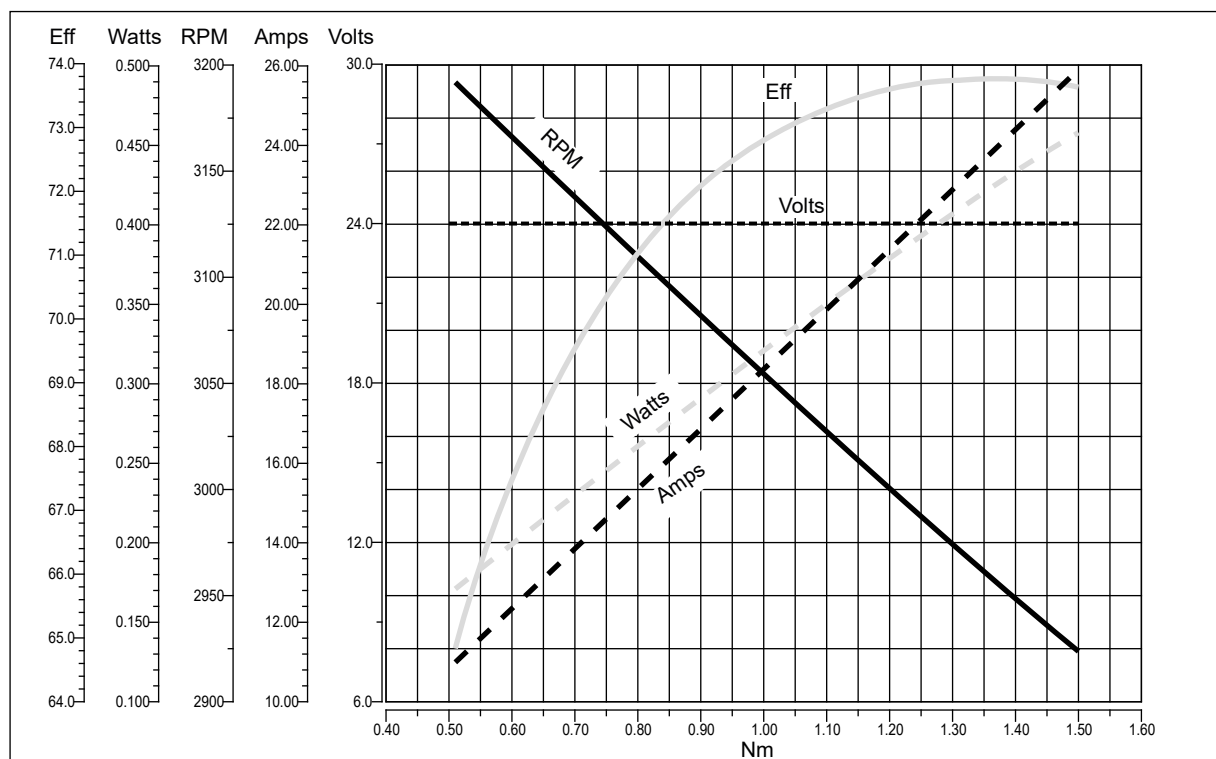
TTB-EC250.012 - TTB-EC250.024

Performance

TTB-EC250.012



TTB-EC250.024



TTB-EC350.012 - TTB-EC350.024

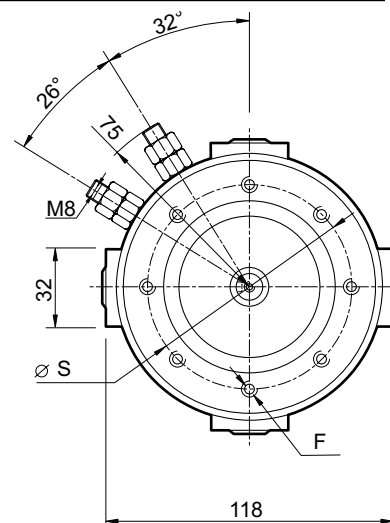
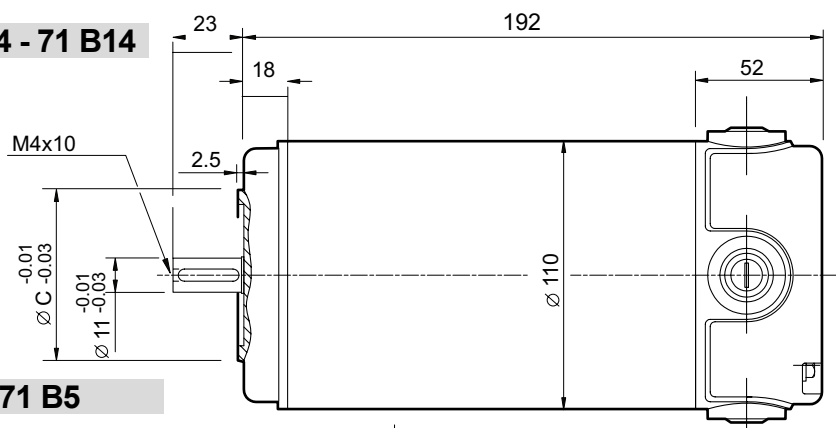
Eigenschaften

Construction	Tubular, without fan
Size	Ø 110 mm
Power	500 W S2 (350 W S1)
Magnets	4
Bearings	Ball bearings
Mounting holes	8
Power supply	Low voltage, 12 or 24 Vdc
Brushes	4 brushes made of graphite/copper composite
Brushes size	LxPxH = 18.9 x 9.5 x 16.7 mm
Leads terminals	2, with double nut
Brake	Electromagnetic

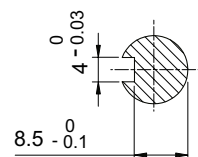
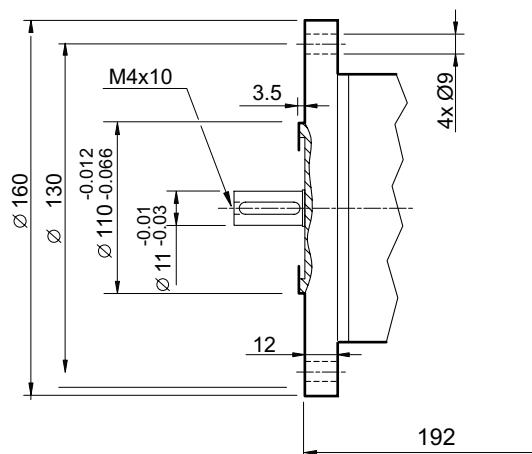
Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC350.012	S1	350	12	42	F	1	1.12	3000	40	5.1
	S2 30%	500		58.8			1.57			
EC350.024	S1	350	24	21			1.12		40	5.3
	S2 30%	500		29.4			1.57			

Abmessungen

63 B14 - 71 B14



71 B5



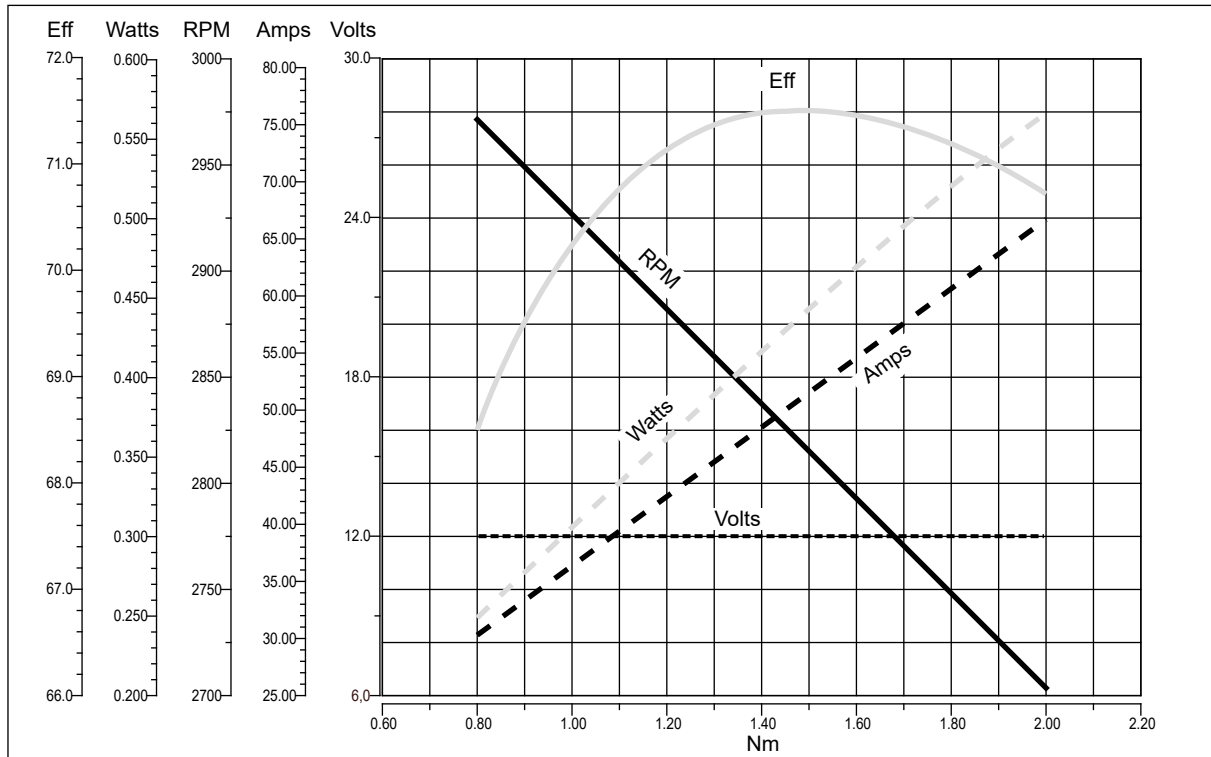
	63 B14	71 B14*
S	75	85
C (-0.03 / -0.01)	60	70
F	8 - M5	8 - M6

* Use sleeve 11/14

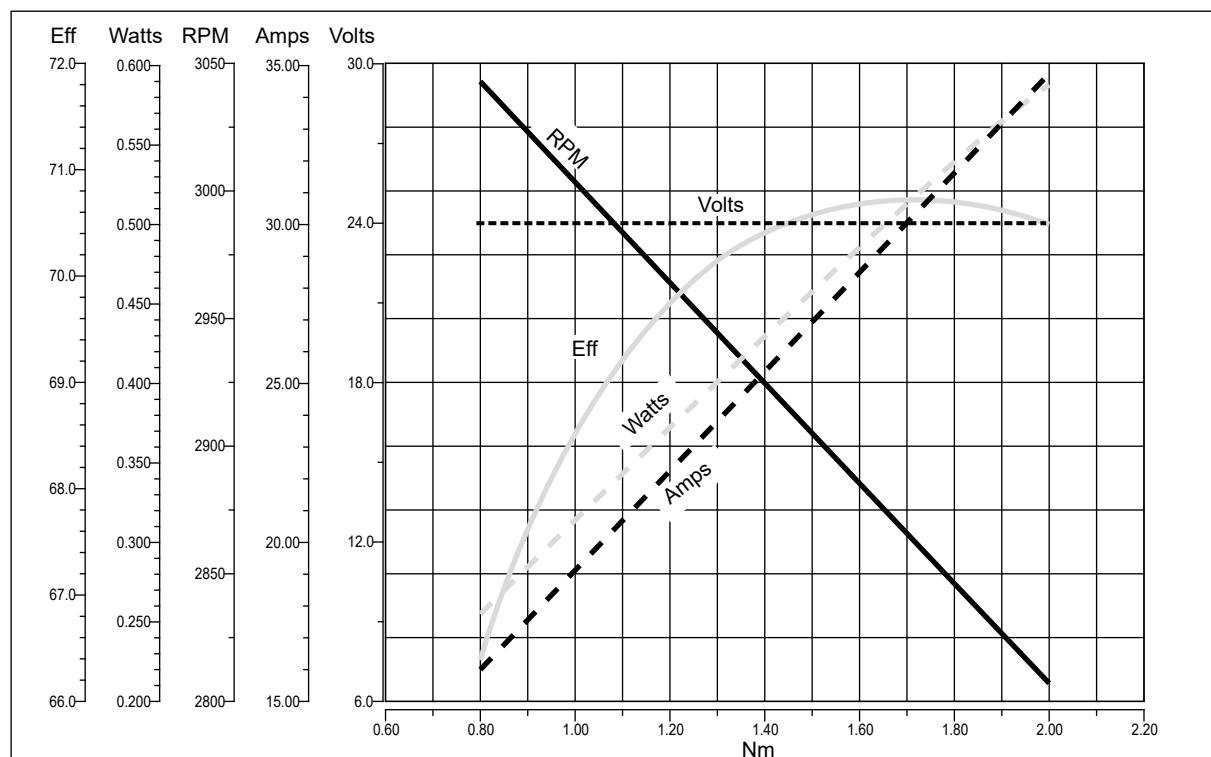
TTB-EC350.012 - TTB-EC350.024

Performance

TTB-EC350.012



TTB-EC350.024



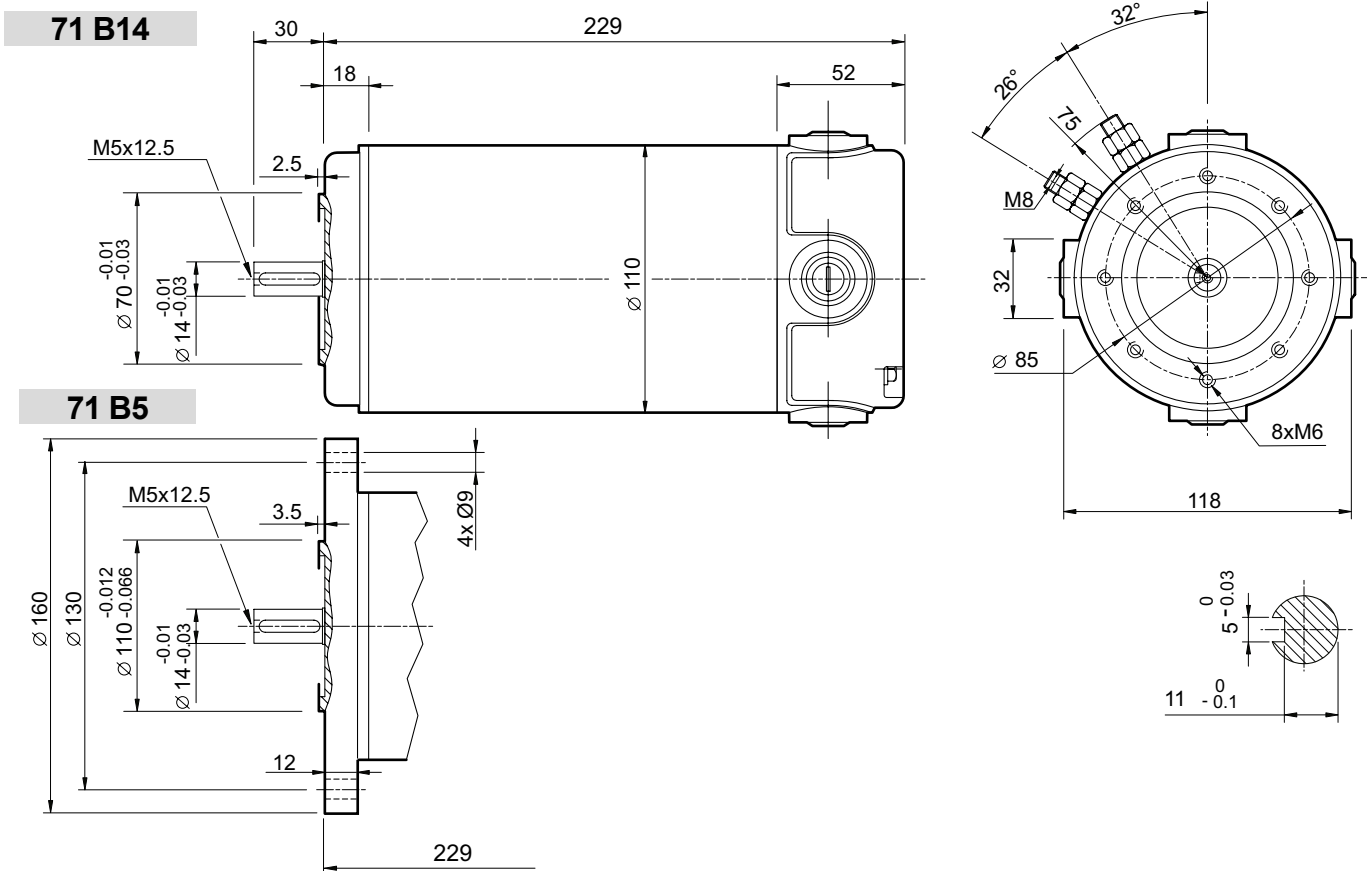
TTB-EC600.012 - TTB-EC600.024

Eigenschaften

Construction	Tubular, without fan
Size	Ø 110 mm
Power	800 W S2 (600 W S1)
Magnets	4
Bearings	Ball bearings
Mounting holes	8
Power supply	Low voltage, 12 or 24 Vdc
Brushes	4 brushes made of graphite/copper composite
Brushes size	LxPxH = 18.9 x 9.5 x 16.7 mm
Leads terminals	2, with double nut
Brake	Electromagnetic

Tipo Type	S	Pn [W]	V [V]	I [A]	IC	FF	Mn [Nm]	n ₁ [min ⁻¹]	IP	Kg
EC600.012	S1	600	12	71	F	1	1.91	3000	40	6.6
	S2 30%	800		94.4			2.54			
EC600.024	S1	600	24	35.5			1.91		40	7.1
	S2 30%	800		47.2			2.54			

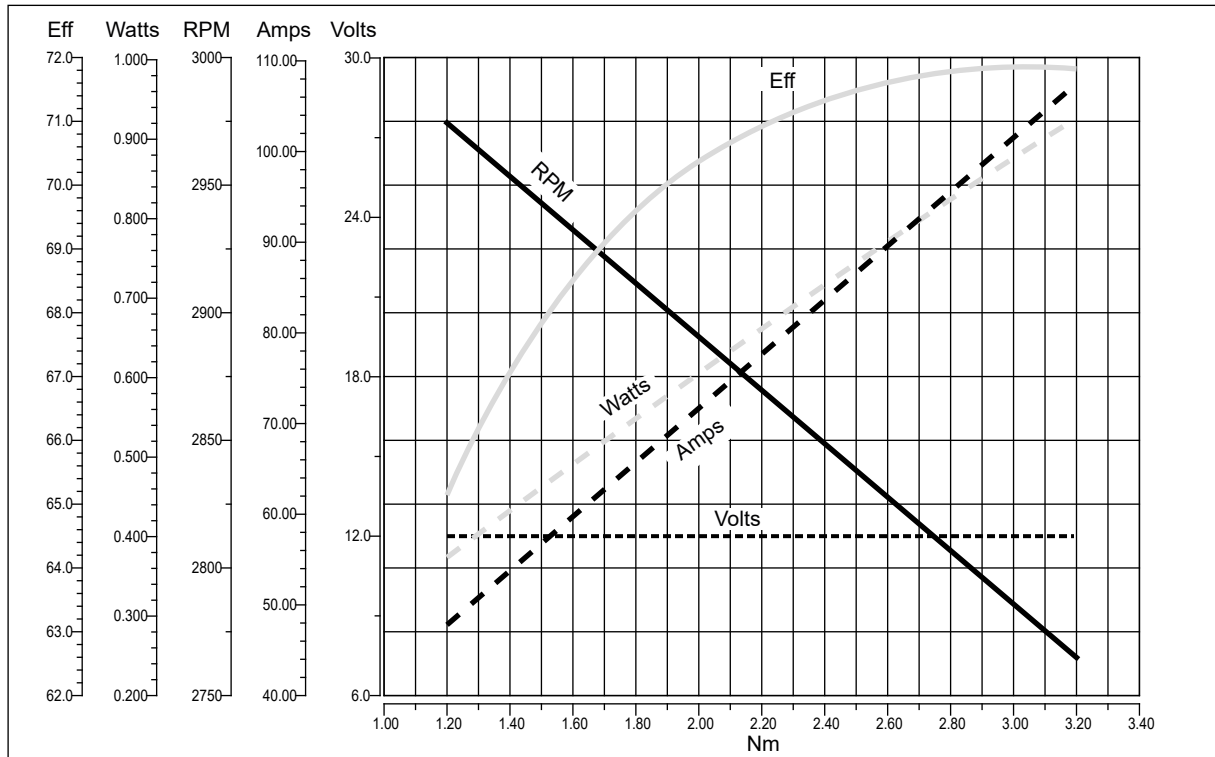
Abmessungen



TTB-EC600.012 - TTB-EC600.024

Performance

TTB-EC600.012



TTB-EC600.024

