

Brake AB 20 24 VDC, 0.1 Nm



- Stock program
- Standard program
- Special program (on request)

Important information

- Permanent magnet – single-face brake for DC (dry operation). Braking in unpowered condition.
- Holding brake, prevents rotation of the shaft at standstill or with turned off motor power.
- Not suitable for dynamic braking.
- Schematic image: does not necessarily reflect the delivery state.

Part numbers

301212 301213

Type



Modular system							
+ Motor	Page	+ Gearhead	Page	+ Sensor	Page	Ø AB [mm]	Overall length [mm] / • see Gearhead
EC-max 22, 12 W	282					22	67.6
EC-max 22, 12 W	282	GP 22, 0.5 - 1.0 Nm	420			22	•
EC-max 22, 12 W	282	GP 22, 0.5 - 3.4 Nm	422-423			22	•
EC-max 22, 12 W	282	KD 32, 1.0 - 4.5 Nm	435			22	•
EC-max 22, 12 W	282	GP 22 S	472/473			22	•
EC-max 22, 25 W	283					22	84.1
EC-max 22, 25 W	283	GP 22, 0.5 - 1.0 Nm	420			22	•
EC-max 22, 25 W	283	GP 22, 0.5 - 2.0 Nm	422			22	•
EC-max 22, 25 W	283	GP 22, 0.5 - 3.4 Nm	423			22	•
EC-max 22, 25 W	283	GP 32, 1.0 - 6.0 Nm	429-430			22	•
EC-max 22, 25 W	283	KD 32, 1.0 - 4.5 Nm	435			22	•
EC-max 22, 25 W	283	GP 22 S	472/473			22	•
EC-max 22, 25 W	283	GP 32 S	474-482			22	•
EC-max 30, 40 W	284					30	77.6
EC-max 30, 40 W	284	GP 32, 0.75 - 4.5 Nm	428			30	•
EC-max 30, 40 W	284	GP 32, 1.0 - 8.0 Nm	431/432			30	•
EC-max 30, 40 W	284	KD 32, 1.0 - 4.5 Nm	435			30	•
EC-max 30, 40 W	284	GP 32 S	474-482			30	•
EC-max 30, 40 W	284			HEDL 5540	537-539	30	98.2
EC-max 30, 40 W	284	GP 32, 0.75 - 4.5 Nm	428	HEDL 5540	537-539	30	•
EC-max 30, 40 W	284	GP 32, 1.0 - 8.0 Nm	430/432	HEDL 5540	537-539	30	•
EC-max 30, 40 W	284	KD 32, 1.0 - 4.5 Nm	435	HEDL 5540	537-539	30	•
EC-max 30, 40 W	284	GP 32 S	474-482	HEDL 5540	537-539	30	•
EC-max 30, 60 W	285					30	99.6
EC-max 30, 60 W	285	GP 32, 0.75 - 4.5 Nm	428			30	•
EC-max 30, 60 W	285	GP 32, 1.0 - 8.0 Nm	430/432			30	•
EC-max 30, 60 W	285	KD 32, 1.0 - 4.5 Nm	435			30	•
EC-max 30, 60 W	285	GP 42, 3.0 - 15.0 Nm	440			30	•
EC-max 30, 60 W	285	GP 32 S	474-482			30	•
EC-max 30, 60 W	285			HEDL 5540	537-539	30	120.2
EC-max 30, 60 W	285	GP 32, 0.75 - 4.5 Nm	428	HEDL 5540	537-539	30	•
EC-max 30, 60 W	285	GP 32, 1.0 - 8.0 Nm	430/432	HEDL 5540	537-539	30	•
EC-max 30, 60 W	285	KD 32, 1.0 - 4.5 Nm	435	HEDL 5540	537-539	30	•
EC-max 30, 60 W	285	GP 42, 3.0 - 15.0 Nm	440	HEDL 5540	537-539	30	•
EC-max 30, 60 W	285	GP 32 S	474-482	HEDL 5540	537-539	30	•
EC-4pole 30, 100 W	293					30	83.2
EC-4pole 30, 100 W	293	GP 32, 1.0 - 6.0 Nm	430			30	•
EC-4pole 30, 100 W	293	GP 32, 4.0 - 8.0 Nm	432			30	•
EC-4pole 30, 100 W	293	GP 42, 3.0 - 15.0 Nm	440			30	•
EC-4pole 30, 100 W	293	GP 32 S	474-482			30	•
EC-4pole 30, 100 W	293			22 EMT	518	30	114.4
EC-4pole 30, 100 W	293	GP 32, 1.0 - 6.0 Nm	430	22 EMT	518	30	•
EC-4pole 30, 100 W	293	GP 32, 4.0 - 8.0 Nm	432	22 EMT	518	30	•
EC-4pole 30, 100 W	293	GP 42, 3.0 - 15.0	440	22 EMT	518	30	•
EC-4pole 30, 100 W	293	GP 32 S	474-482	22 EMT	518	30	•

Technical data						Pin allocation	
Holding torque	0.1 Nm	Nominal voltage, smoothed	24 VDC ±10%	Cable (AWG 26)		Designation	
Mass inertia	1.8 gcm ²	Resistance	R ₂₀ = 227 Ω ±6%	red		U _{Brake} + 24 VDC	
Max. speed	49 000 rpm	Duty cycle	100%	blue		U _{Brake} GND	
Weight	29 g	Reaction time	≤ 12 ms	Min. cable length		350 mm	
Ambient temperature range	-40...+100°C	- Coupling - Opening	≤ 16 ms				

Brake AB 20 24 VDC, 0.1 Nm



- Stock program
- Standard program
- Special program (on request)

Important information

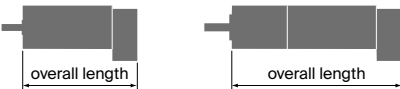
- Permanent magnet – single-face brake for DC (dry operation). Braking in unpowered condition.
- Holding brake, prevents rotation of the shaft at standstill or with turned off motor power.
- Not suitable for dynamic braking.
- Schematic image: does not necessarily reflect the delivery state.

accessories

Part numbers

301212 301213

Type



Modular system							
+ Motor	Page	+ Gearhead	Page	+ Sensor	Page	Ø AB [mm]	Overall length [mm] / • see Gearhead
EC-4pole 30, 100 W	293			16 EASY/XT/Abs.	509-511	30	97.3
EC-4pole 30, 100 W	293	GP 32, 1.0 - 6.0 Nm	430	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 100 W	293	GP 32, 4.0 - 8.0 Nm	432	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 100 W	293	GP 42, 3.0 - 15.0 Nm	440-441	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 100 W	293	GP 32 S	474-482	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 100 W	293			16 EASY Abs. XT	512	30	97.8
EC-4pole 30, 100 W	293	GP 32, 1.0 - 6.0 Nm	430	16 EASY Abs. XT	512	30	•
EC-4pole 30, 100 W	293	GP 32, 4.0 - 8.0 Nm	432	16 EASY Abs. XT	512	30	•
EC-4pole 30, 100 W	293	GP 42, 3.0 - 15.0 Nm	440-441	16 EASY Abs. XT	512	30	•
EC-4pole 30, 100 W	293	GP 32 S	474-482	16 EASY Abs. XT	512	30	•
EC-4pole 30, 100 W	293			16 RIO	519	30	95.8
EC-4pole 30, 100 W	293	GP 32, 1.0 - 6.0 Nm	430	16 RIO	519	30	•
EC-4pole 30, 100 W	293	GP 32, 4.0 - 8.0 Nm	432	16 RIO	519	30	•
EC-4pole 30, 100 W	293	GP 42, 3.0 - 15.0 Nm	440-441	16 RIO	519	30	•
EC-4pole 30, 100 W	293	GP 32 S	474-482	16 RIO	519	30	•
EC-4pole 30, 200 W	295					30	100.2
EC-4pole 30, 200 W	295	GP 32, 1.0 - 6.0 Nm	430			30	•
EC-4pole 30, 200 W	295	GP 32, 4.0 - 8.0 Nm	433			30	•
EC-4pole 30, 200 W	295	GP 42, 3.0 - 15.0 Nm	440-441			30	•
EC-4pole 30, 200 W	295	GP 32 S	474-482			30	•
EC-4pole 30, 200 W	295			22 EMT	518	30	131.4
EC-4pole 30, 200 W	295	GP 32, 1.0 - 6.0 Nm	430	22 EMT	518	30	•
EC-4pole 30, 200 W	295	GP 32, 4.0 - 8.0 Nm	433	22 EMT	518	30	•
EC-4pole 30, 200 W	295	GP 42, 3.0 - 15.0 Nm	440-441	22 EMT	518	30	•
EC-4pole 30, 200 W	295	GP 32 S	474-482	22 EMT	518	30	•
EC-4pole 30, 200 W	295			16 EASY/XT/Abs.	509-511	30	114.3
EC-4pole 30, 200 W	295	GP 32, 1.0 - 6.0 Nm	430	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 200 W	295	GP 32, 4.0 - 8.0 Nm	433	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 200 W	295	GP 42, 3.0 - 15.0 Nm	440-441	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 200 W	295	GP 32 S	474-482	16 EASY/XT/Abs.	509-511	30	•
EC-4pole 30, 200 W	295			16 EASY Abs. XT	512	30	114.8
EC-4pole 30, 200 W	295	GP 32, 1.0 - 6.0 Nm	430	16 EASY Abs. XT	512	30	•
EC-4pole 30, 200 W	295	GP 32, 4.0 - 8.0 Nm	433	16 EASY Abs. XT	512	30	•
EC-4pole 30, 200 W	295	GP 42, 3.0 - 15.0 Nm	440-441	16 EASY Abs. XT	512	30	•
EC-4pole 30, 200 W	295	GP 32 S	474-482	16 EASY Abs. XT	512	30	•
EC-4pole 30, 200 W	295			16 RIO	519	30	112.8
EC-4pole 30, 200 W	295	GP 32, 1.0 - 6.0 Nm	430	16 RIO	519	30	•
EC-4pole 30, 200 W	295	GP 32, 4.0 - 8.0 Nm	433	16 RIO	519	30	•
EC-4pole 30, 200 W	295	GP 42, 3.0 - 15.0 Nm	440-441	16 RIO	519	30	•
EC-4pole 30, 200 W	295	GP 32 S	474-482	16 RIO	519	30	•

Technical data				Pin allocation	
Holding torque	0.1 Nm	Nominal voltage, smoothed	24 VDC ±10%	Cable (AWG 26) red blue	Designation U _{Brake} + 24 VDC U _{Brake} GND
Mass inertia	1.8 gcm ²	Resistance	R ₂₀ = 227 Ω ±6%		
Max. speed	49000 rpm	Duty cycle	100%	Min. cable length	350 mm
Weight	29 g	Reaction time	≤ 12 ms		
Ambient temperature range	-40...+100°C	- Coupling - Opening	≤ 16 ms		