

## DC motor



- DC motor with spur gear
- protection class IP20 / IP30
- flat-pin motor plug

**part number**

<b>MOT</b>	<b>AE</b>	<b>B</b>	<b>024</b>	<b>015</b>	<b>037</b>	<b>F</b>	<b>A</b>	<b>AAAA</b>	
									<b>specifics</b>
									AAAA   standard
									<b>options</b>
									A   without
									<b>motor connection</b>
									F   flat-pin
									<b>flange dimension</b>
									036   36mm
									037   37mm
									042   42mm
									<b>nominal torque</b>
									001   0,1Nm
									003   0,3Nm
									005   0,5Nm
									007   0,7Nm
									010   1,0Nm
									015   1,5Nm
									018   1,8Nm
									<b>max voltage</b>
									024   24VDC
									<b>motor type</b>
									B   DC-motor
									<b>type</b>
									AE   version
									<b>product group</b>
									MOT   motor

<b>MOT</b>	<b>DC</b>	<b>22</b>	<b>F</b>	<b>A</b>	<b>D</b>				
									<b>specifics (nominal speed [1/min])</b>
									D   375
									E   137
									J   36
									<b>options</b>
									A   ohne
									<b>motor connection</b>
									F   flat-pin
									<b>outer diameter</b>
									22   22mm
									<b>motor type</b>
									DC   DC-motor
									<b>product group</b>
									MOT   motor

technical data									
motor		MOT-AE-B-024-001-037-F-A-AAAA	MOT-AE-B-024-003-037-F-A-AAAA	MOT-AE-B-024-005-036-F-A-AAAA	MOT-AE-B-024-007-037-F-A-AAAA	MOT-AE-B-024-010-042-F-A-AAAA	MOT-AE-B-024-015-037-F-A-AAAA	MOT-AE-B-024-018-042-F-A-AAAA	
max. voltage	[VDC]	24	24	24	24	24	24	24	
nominal voltage	[VDC]	24	24	24	24	24	24	24	
nominal torque	[Nm]	0,1	0,3	0,5	0,7	1,0	1,5	1,8	
starting torque	[Nm]	0,3	0,5	1	1	3	1,8	6	
no-load speed	[1/min]	440	146	223	58	290	22	115	
nominal speed	[1/min]	350	112	190	47	252	17	101	
nominal current	[A]	0,5	0,5	0,9	0,5	2,3	0,5	2,0	
max. shaft load axial (10mm from flange)	[N]	6,8	6,8	25	6,8	30	6,8	30	
max. shaft load radial (10mm from flange)	[N]	9,8	9,8	30	9,8	50	9,8	50	
gear ratio	[i]	10	30	27	75	24	200	61	
weight									
motor	[kg]	0,207	0,213	0,450	0,221	0,650	0,270	0,690	
operating data									
ambient temperature	[°C]	-10 ...+60							
max temperature rise	[°C]	60							
humidity (not condensing)	[%]	85							
protection class (all mounting screws must be used to ensure the protection class)		IP30	IP30	IP20	IP30	IP20	IP30	IP20	
operation mode		S2 (short-time duty)							
pin assignment motor									
flat-pin plug									
length	[mm]	6,5	6,5	6,0	6,5	9,0	6,5	9,0	
width	[mm]	4,0	4,0	3,8	4,0	4,8	4,0	4,8	
thickness	[mm]	0,4	0,4	0,5	0,4	0,5	0,4	0,5	

**technical data**

		MOT-DC-22-F-A-D	MOT-DC-22-F-A-E	MOT-DC-22-F-A-J					
<b>motor</b>									
max. voltage	[VDC]	24	24	24					
nominal voltage	[VDC]	24	24	24					
nominal torque	[Nm]	0,025	0,06	0,21					
starting torque	[Nm]	0,13	0,35	1,18					
no-load speed	[1/min]	463	169	45					
nominal speed	[1/min]	375	137	37					
nominal current	[A]	< 0,15	< 0,15	< 0,15					
max. shaft load axial (10mm from flange)	[N]	5,9	5,9	5,9					
max. shaft load radial (10mm from flange)	[N]	9,8	9,8	9,8					
gear ratio	[i]	19	53	198					

**weight**

motor	[kg]	0,062	0,067	0,092					
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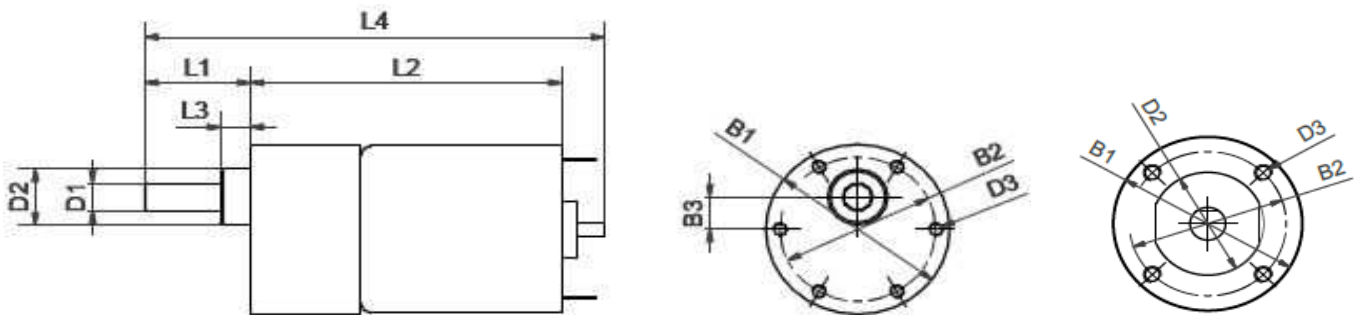
**operating data**

ambient temperature	[°C]	-10 ...+60							
max temperature rise	[°C]	60							
humidity (not condensing)	[%]	85							
protection class (all mounting screws must be used to ensure the protection class)		IP30	IP30	IP30					
operation mode		S2 (short-time duty)							

**pin assignment motor**

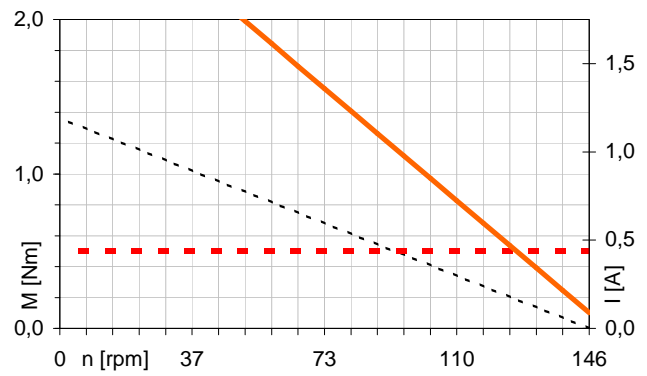
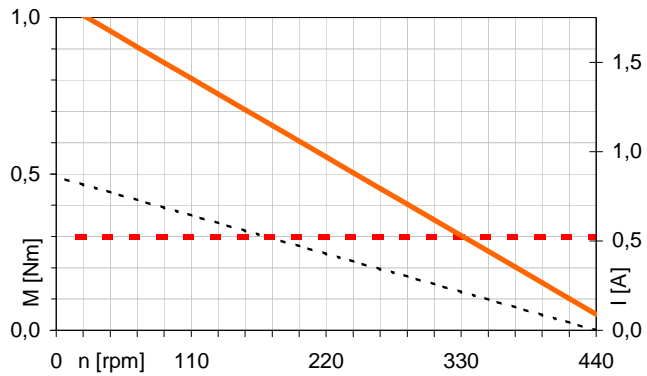
flat-pin plug									
length	[mm]	4,5	4,5	4,5					
width	[mm]	2,0	2,0	2,0					
thickness	[mm]	0,3	0,3	0,3					

**technical data**  
**dimension**

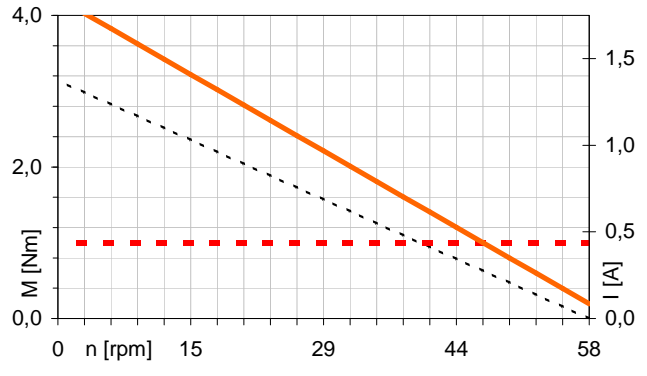
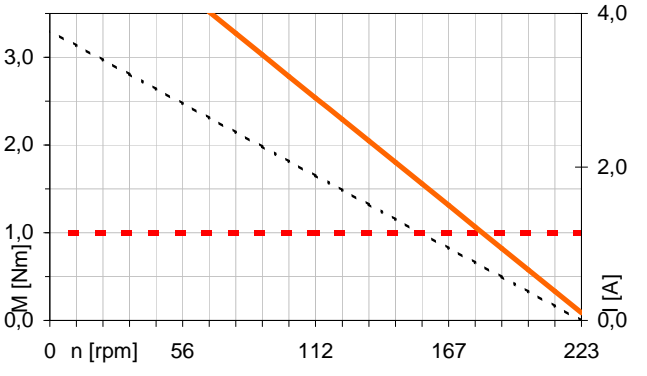


type	B1 [mm] ±0,3	B2 [mm] ±0,2	B3 [mm] ±0,1	D1 Ø [mm] -0,013	D2 Ø [mm] ±0,025	D3 Ø [mm]	L1 [mm] ±1	L2 [mm] ±1	L3 [mm]	L4 [mm]
MOT-AE-B-024-001-037-F-A-AAAA	37,0	31	7	6,0	12,0	M3	21,0	59,5	6,0	92,5
MOT-AE-B-024-003-037-F-A-AAAA	37,0	31	7	6,0	12,0	M3	21,0	62,0	6,0	95,0
MOT-AE-B-024-005-036-F-A-AAAA	36,0	26	6	6,0	20,0	M3	19,3	85,6	3,0	104,9
MOT-AE-B-024-007-037-F-A-AAAA	37,0	31	7	6,0	12,0	M3	21,0	64,5	6,0	97,5
MOT-AE-B-024-010-042-F-A-AAAA	42,4	35	0	8,0	25,0	M4	22,0	105,2	2,0	127,2
MOT-AE-B-024-015-037-F-A-AAAA	37,0	31	7	6,0	12,0	M3	21,0	67,0	6,0	100,0
MOT-AE-B-024-018-042-F-A-AAAA	42,4	35	0	8,0	25,0	M4	22,0	111,9	2,0	142,4
MOT-DC-22-F-A-D	22,0	18	0	4	14,0	M2	14,0	50,1	2,0	68,6
MOT-DC-22-F-A-E	22,0	18	0	4	14,0	M2	14,0	53,8	2,0	72,3
MOT-DC-22-F-A-J	22,0	18	0	4	14,0	M2	14,0	57,4	2,0	76,0

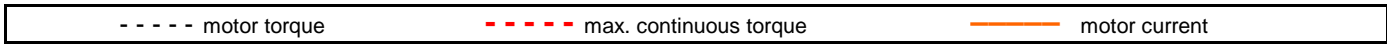
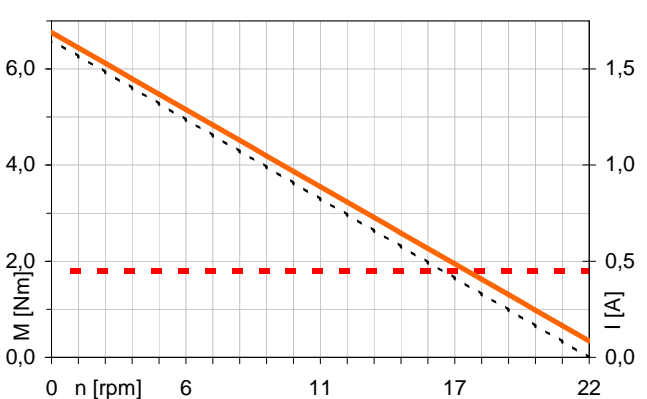
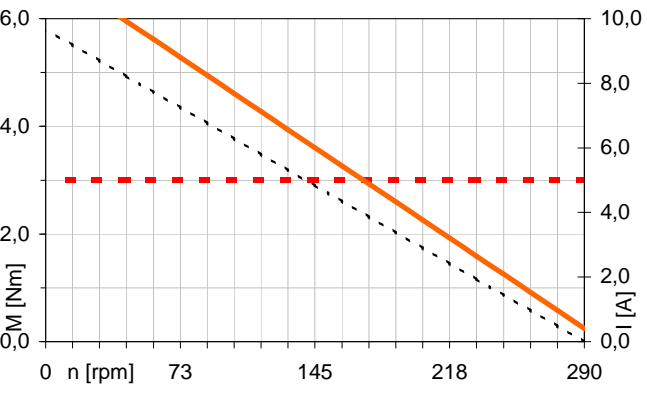
**characteristic (24VDC)**  
 MOT-AE-B-024-001-037-F-A-AAAA      MOT-AE-B-024-003-037-F-A-AAAA



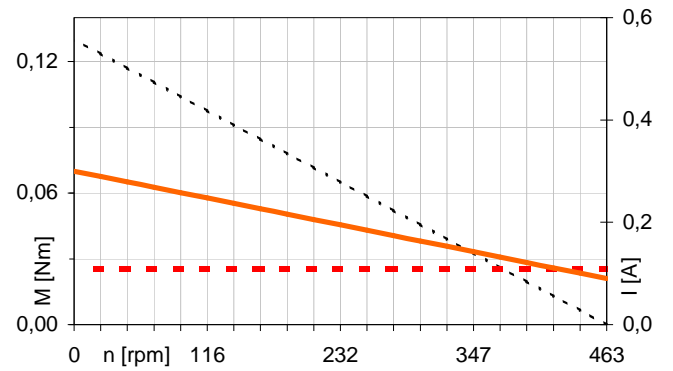
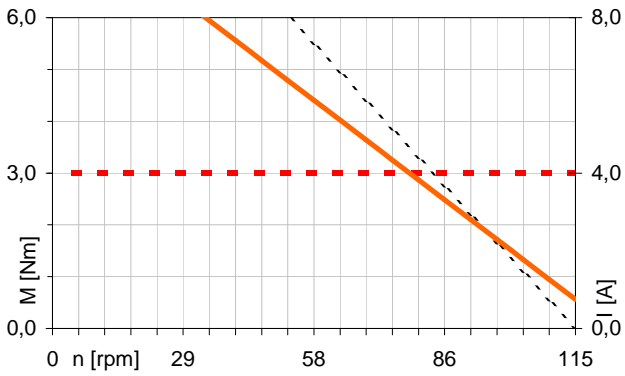
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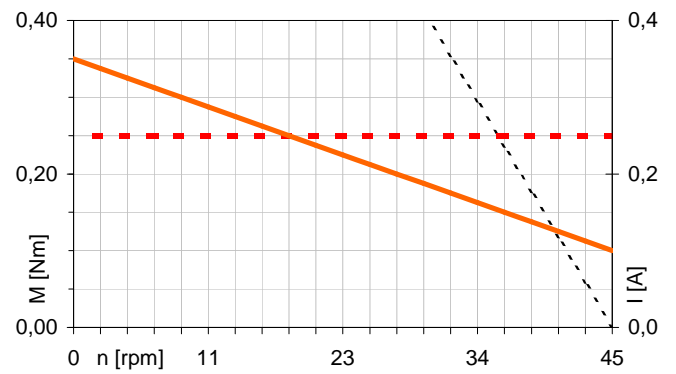
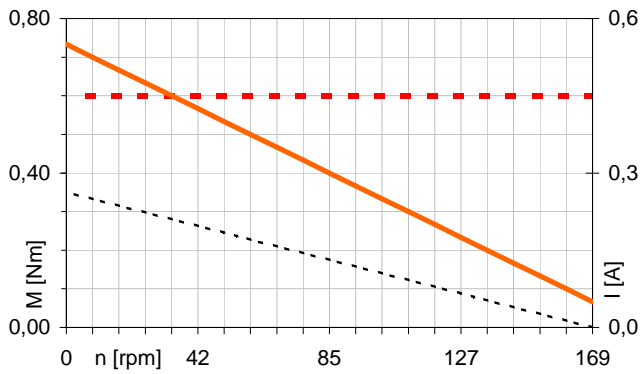
MOT-AE-B-024-010-042-F-A-AAAA      MOT-AE-B-024-015-037-F-A-AAAA



**characteristic (24VDC)**  
 MOT-AE-B-024-018-042-F-A-AAAA MOT-DC-22-F-A-D

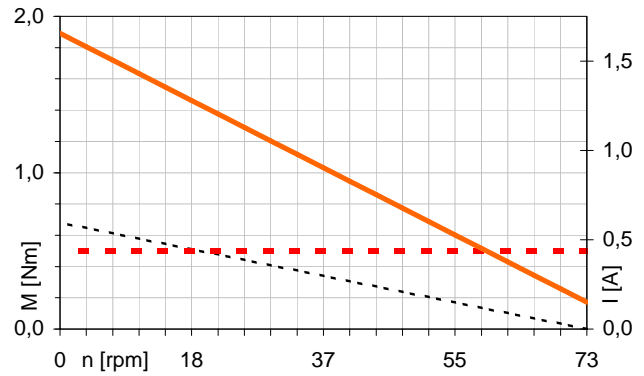
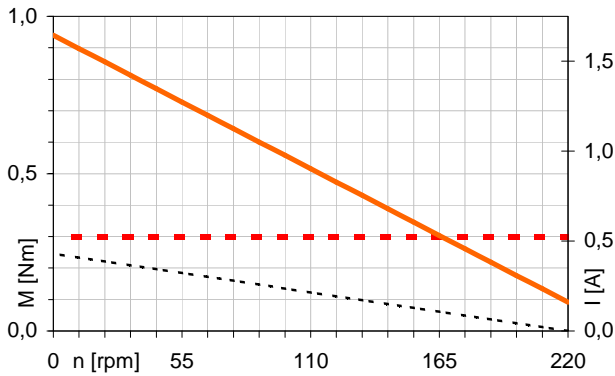


MOT-DC-22-F-A-E MOT-DC-22-F-A-J

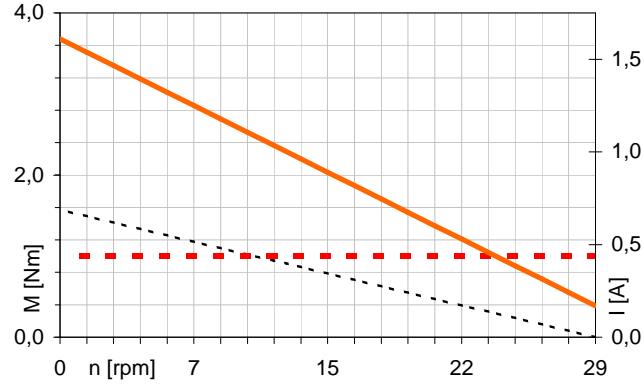
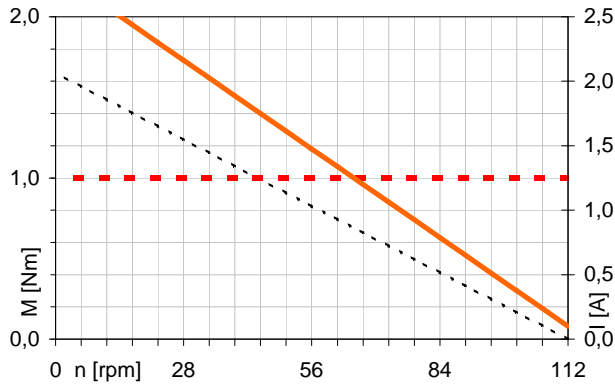


----- motor torque      - - - - - max. continuous torque      ——— motor current

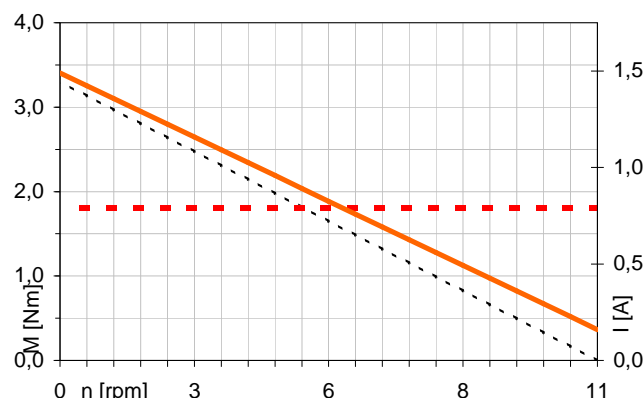
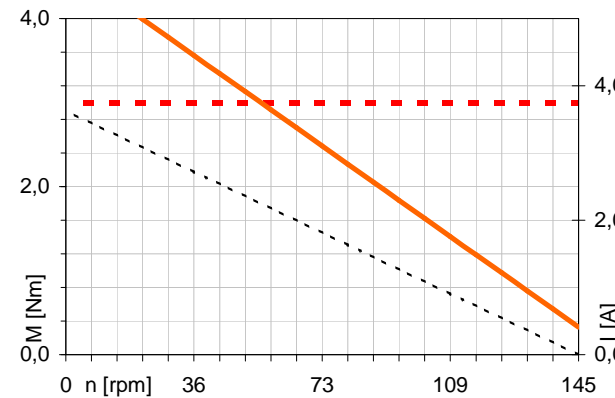
**characteristic (12VDC)**  
 MOT-AE-B-024-001-037-F-A-AAAA      MOT-AE-B-024-003-037-F-A-AAAA



MOT-AE-B-024-005-036-F-A-AAAA      MOT-AE-B-024-007-037-F-A-AAAA



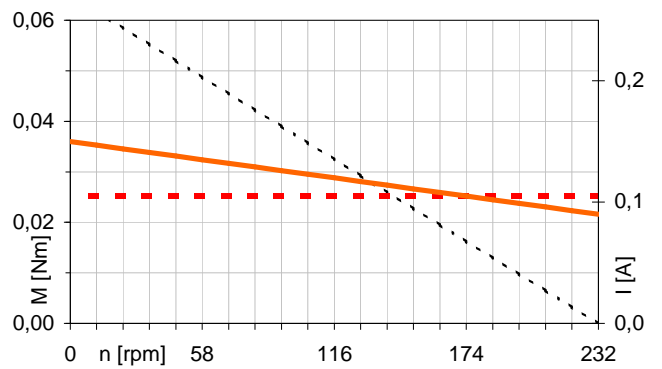
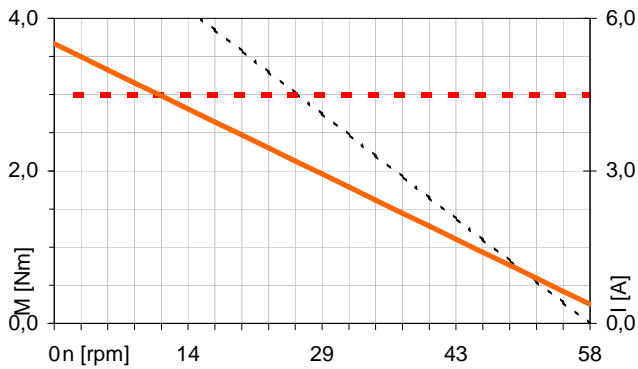
MOT-AE-B-024-010-042-F-A-AAAA      MOT-AE-B-024-015-037-F-A-AAAA



----- motor torque      - - - - - max. continuous torque      ——— motor current



**characteristic (12VDC)**  
 MOT-AE-B-024-018-042-F-A-AAAA MOT-DC-22-F-A-D



MOT-DC-22-F-A-E MOT-DC-22-F-A-J

