

EMP Brakes - Through bore

TECHNICAL DATA - Size 20

Technical Features		
Rated torque	Nm / lb.ft	2 / 1.5
Rated current	A	0.40
Residual torque	Nm / lb.ft	0.04 / 0.03
Residual torque RR ⁽¹⁾	Nm / lb.ft	0.08 / 0.06
Coil resistance ⁽²⁾	Ω	24
Rotor Inertia	kg.m ²	16.10 ⁻⁶
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated housing Temp. ⁽⁴⁾	°C	100
Ultimate housing Temp.	°C	120

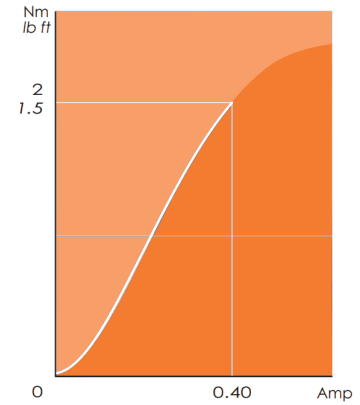
⁽¹⁾ remnant rotor version advised for low rpm or vertical shaft mounting

⁽²⁾ at 20°C (resistance varies with coil temperature)

⁽³⁾ when speed is permanently under min. rpm, RR version is advised

Any further request, please consult your supplier

⁽⁴⁾ max for rated life

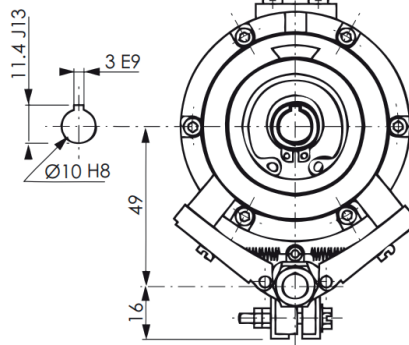
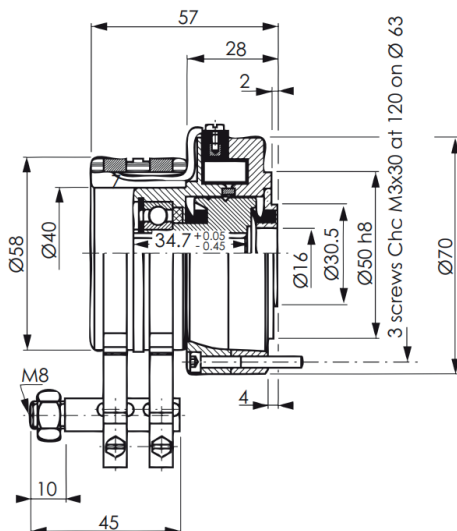


Typical torque vs. current

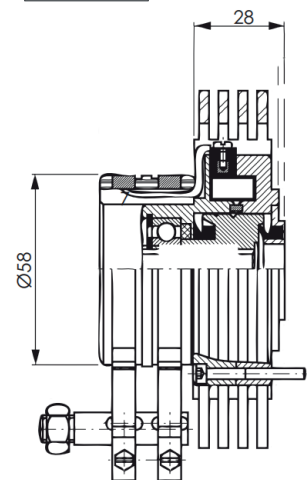
Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 20	40	1 / 2.2	ME314330-00
ERAT 20	60	1.2 / 2.6	ME314335-00

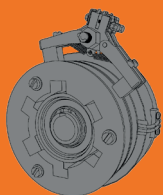
DIMENSIONS

EAT



ERAT





EMP Brakes - Through bore

TECHNICAL DATA - Size 50

Technical Features		
Rated torque	Nm / lb.ft	5 / 4
Rated current	A	0.50
Residual torque	Nm / lb.ft	0.20 / 0.15
Residual torque RR ⁽¹⁾	Nm / lb.ft	0.40 / 0.30
Coil resistance ⁽²⁾	Ω	24
Rotor Inertia	kg.m ²	99.10 ⁻⁶
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

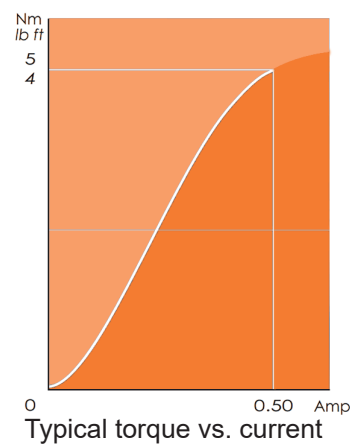
⁽¹⁾ remnant rotor version advised for low rpm or vertical shaft mounting

⁽²⁾ at 20°C (resistance varies with coil temperature)

⁽³⁾ when speed is permanently under min. rpm, RR version is advised

Any further request, please consult your supplier

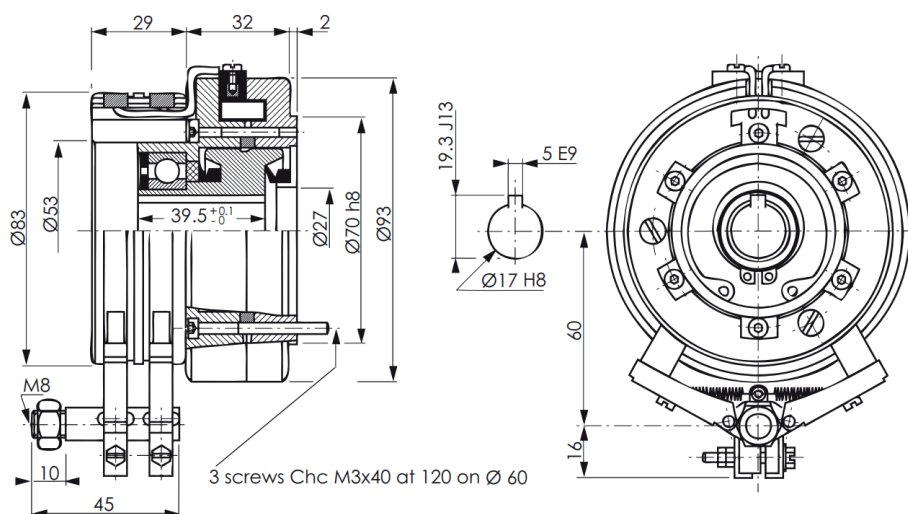
⁽⁴⁾ max for rated life



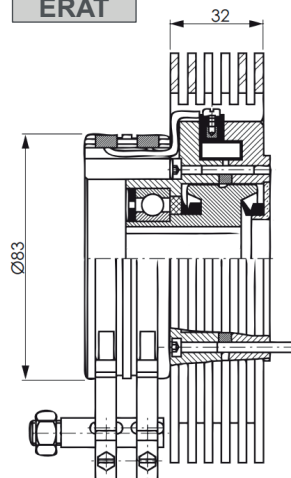
Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 50	70	2.4 / 4.4	ME313930-00
ERAT 50	100	2.4 / 5.3	ME313935-00

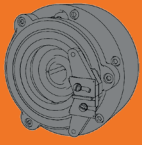
DIMENSIONS

EAT



ERAT





TECHNICAL DATA - Size 120

Technical Features		
Rated torque	Nm / lb.ft	12 / 9
Rated current	A	0.55
Residual torque	Nm / lb.ft	0.27 / 0.20
Residual torque RR ⁽¹⁾	Nm / lb.ft	0.56 / 0.40
Coil resistance ⁽²⁾	Ω	23
Rotor Inertia	kg.m ²	0.25.10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

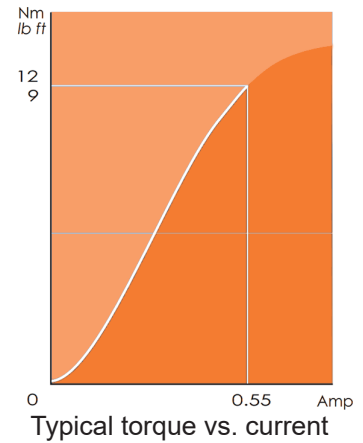
⁽¹⁾ remnant rotor version advised for low rpm or vertical shaft mounting

⁽²⁾ at 20°C (resistance varies with coil temperature)

⁽³⁾ when speed is permanently under min. rpm, RR version is advised

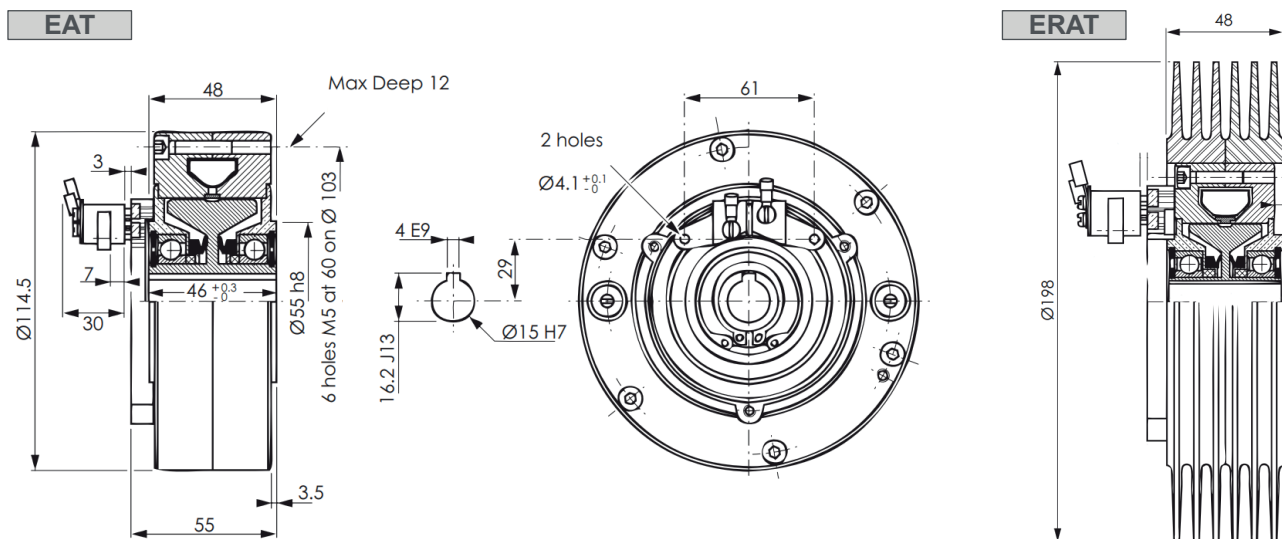
Any further request, please consult your supplier

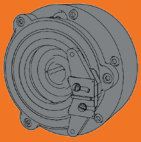
⁽⁴⁾ max for rated life



Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 120	70	2.8 / 6.2	ME321500-00
ERAT 120	150	4.6 / 10.1	ME321600-00

DIMENSIONS





TECHNICAL DATA - Size 350

Technical Features		
Rated torque	Nm / lb.ft	35 / 26
Rated current	A	1.00
Residual torque	Nm / lb.ft	0.33 / 0.24
Residual torque RR ⁽¹⁾	Nm / lb.ft	0.66 / 0.48
Coil resistance ⁽²⁾	Ω	19
Rotor Inertia	kg.m ²	0.79.10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

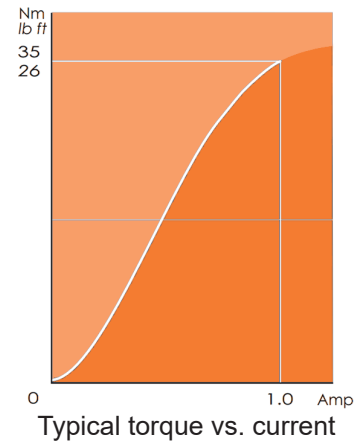
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⁽³⁾ when speed is permanently under min. rpm, RR version is advised

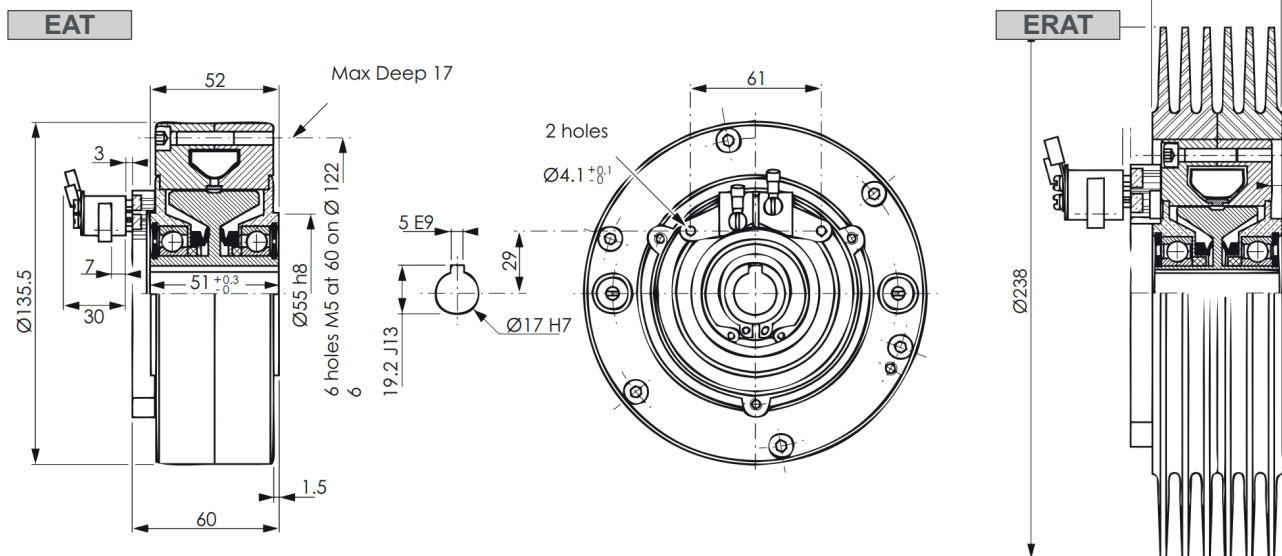
Any further request, please consult your supplier

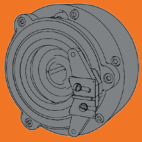
⁽⁴⁾ max for rated life



Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 350	100	4.6 / 10.1	ME321900-00
ERAT 350	210	6.8 / 14.9	ME322000-00

DIMENSIONS





TECHNICAL DATA - Size 650

Technical Features		
Rated torque	Nm / lb.ft	65 / 50
Rated current	A	1.00
Residual torque	Nm / lb.ft	0.63 / 0.46
Residual torque RR ⁽¹⁾	Nm / lb.ft	1.30 / 0.93
Coil resistance ⁽²⁾	Ω	20
Rotor Inertia	kg.m ²	2.10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

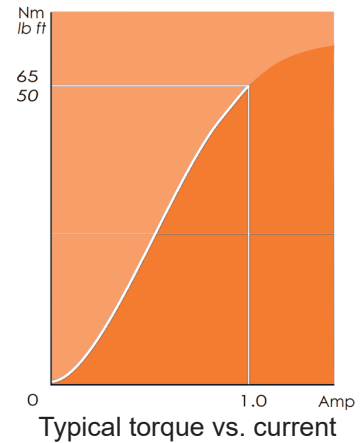
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⁽²⁾ at 20°C (resistance varies with coil temperature)

⁽³⁾ when speed is permanently under min. rpm, RR version is advised

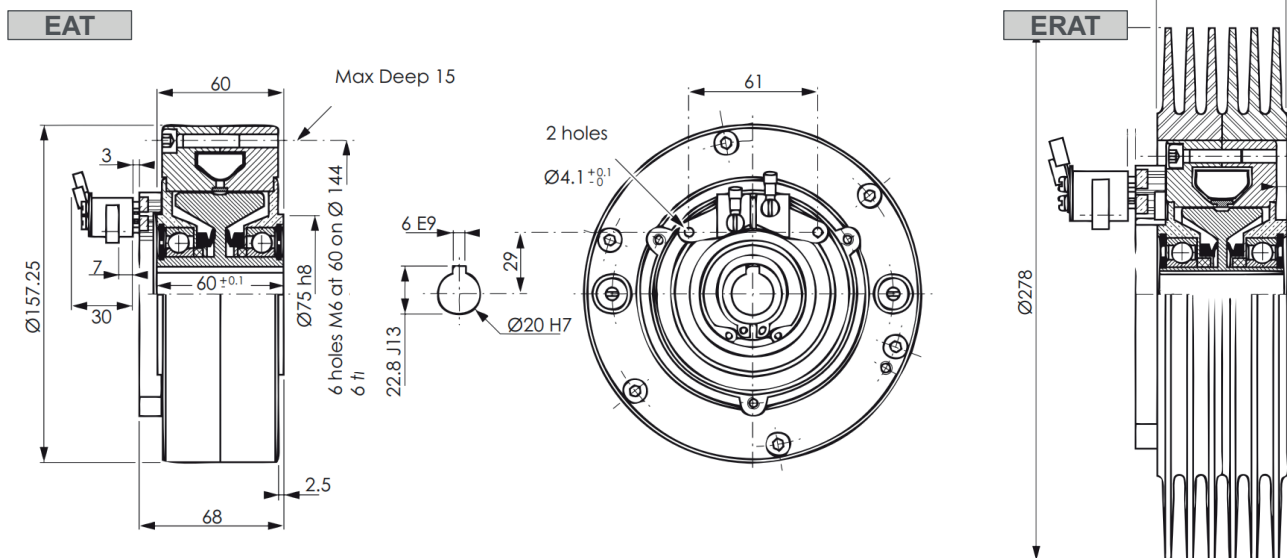
Any further request, please consult your supplier

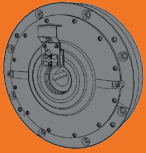
⁽⁴⁾ max for rated life



Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 650	150	7.3 / 16.1	ME322300-00
ERAT 650	350	11.2 / 24.7	ME322400-00

DIMENSIONS





TECHNICAL DATA - Size 1200

Technical Features		
Rated torque	Nm / lb.ft	120 / 90
Rated current	A	1.10
Residual torque	Nm / lb.ft	1.2 / 0.9
Residual torque RR ⁽¹⁾	Nm / lb.ft	2.4 / 1.8
Coil resistance ⁽²⁾	Ω	12.5
Rotor Inertia	kg.m ²	26.5 .10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

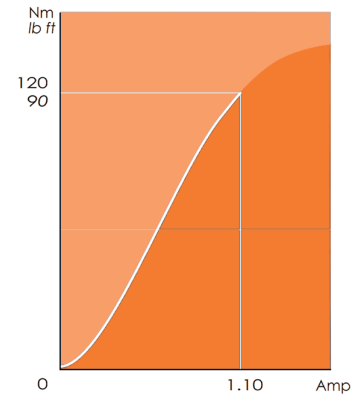
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⁽²⁾ at 20°C (resistance varies with coil temperature)

⁽³⁾ when speed is permanently under min. rpm, RR version is advised

Any further request, please consult your supplier

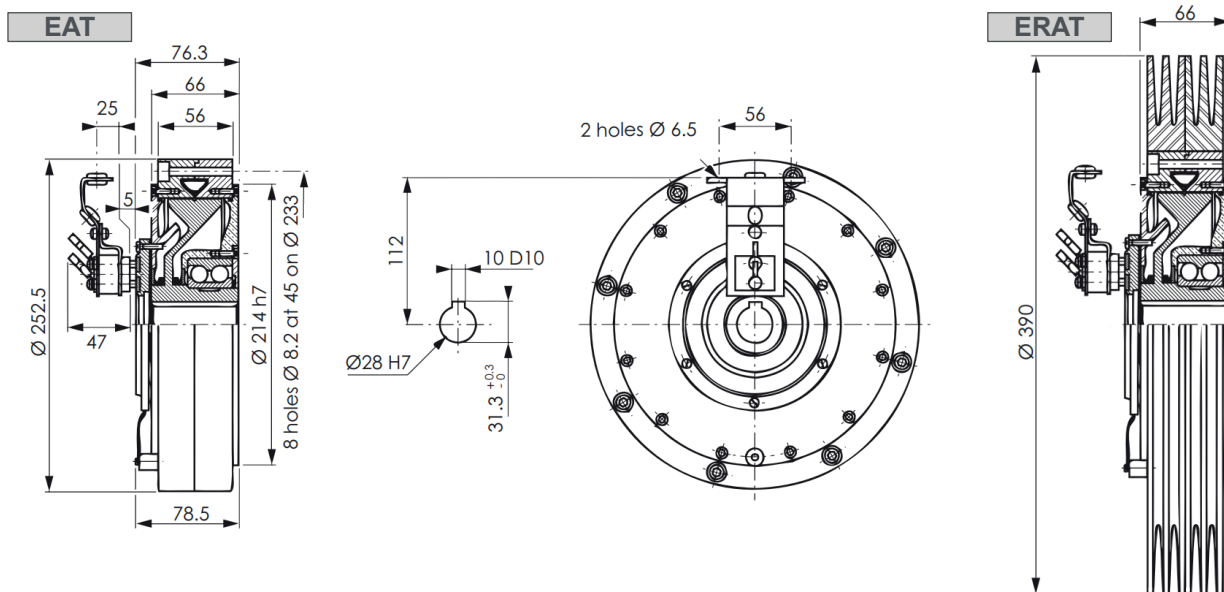
⁽⁴⁾ max for rated life

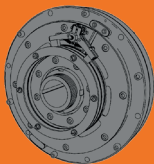


Typical torque vs. current

Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 1200	300	17.5 / 38.5	ME317410-00
ERAT 1200	550	25.5 / 56.2	ME322800-00

DIMENSIONS





TECHNICAL DATA - Size 2002

Technical Features		
Rated torque	Nm / lb.ft	200 / 150
Rated current	A	1.55
Residual torque	Nm / lb.ft	2.0 / 1.5
Residual torque RR ⁽¹⁾	Nm / lb.ft	4.0 / 3.0
Coil resistance ⁽²⁾	Ω	11
Rotor Inertia	kg.m ²	35.2 .10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

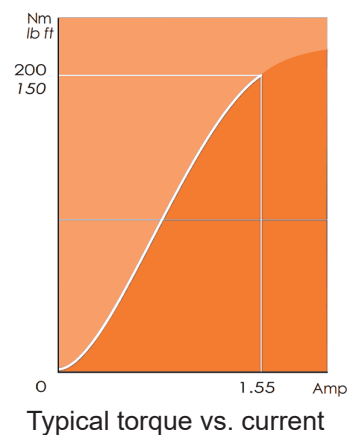
⁽¹⁾ remnant rotor version advised for low rpm or vertical shaft mounting

⁽²⁾ at 20°C (resistance varies with coil temperature)

⁽³⁾ when speed is permanently under min. rpm, RR version is advised

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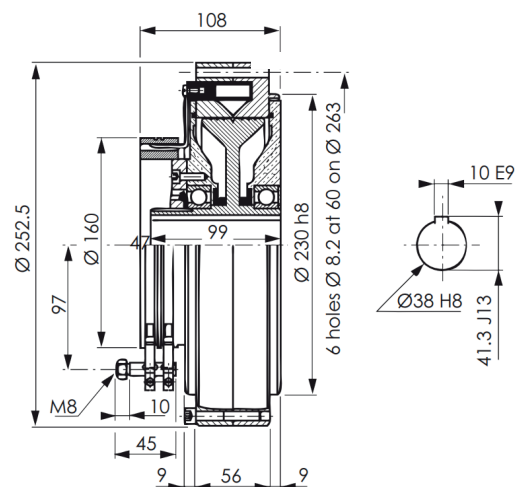
⁽⁴⁾ max for rated life



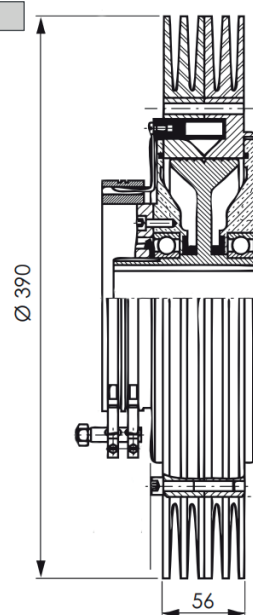
Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 2002	400	25.0 / 55.0	ME330220-00
ERAT 2002	700	31.0 / 68.0	ME330230-00

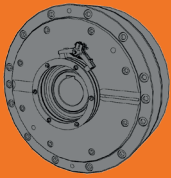
DIMENSIONS

EAT



ERAT





EMP Brakes - Through bore

TECHNICAL DATA - Size 3500

Technical Features		
Rated torque	Nm / lb.ft	350 / 260
Rated current	A	1.50
Residual torque	Nm / lb.ft	3.5 / 2.6
Residual torque RR ⁽¹⁾	Nm / lb.ft	7.0 / 3.7
Coil resistance ⁽²⁾	Ω	10
Rotor Inertia	kg.m ²	89 . 10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	2000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

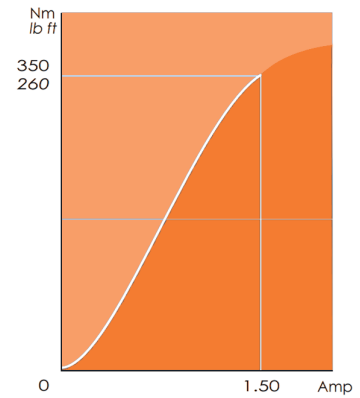
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⁽⁴⁾ max for rated life

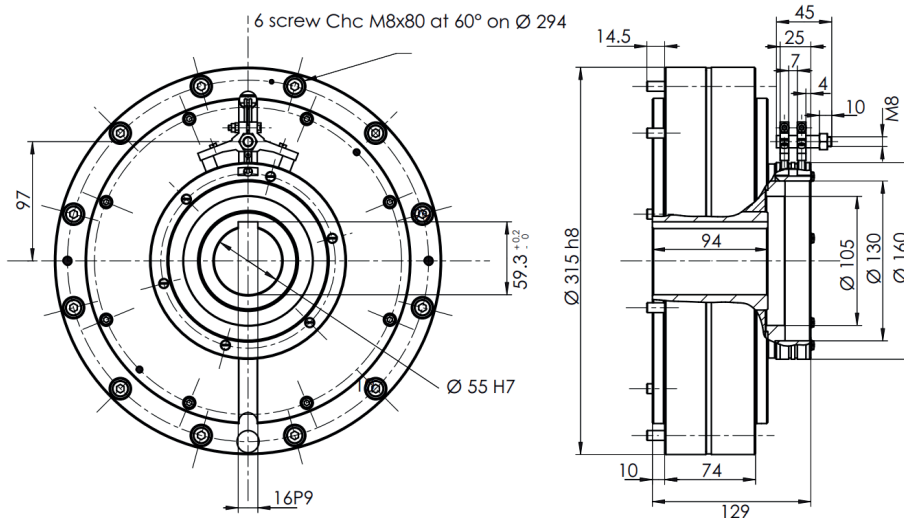


Typical torque vs. current

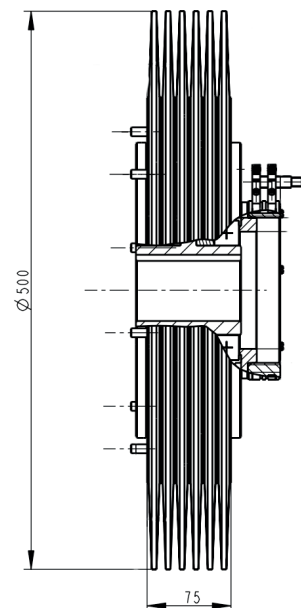
Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 3500	470	40.0 / 88.0	ME126170-00
ERAT 3500	950	55.0 / 121	ME126338-00

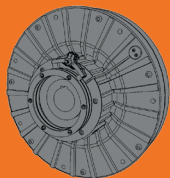
DIMENSIONS

EAT



ERAT





TECHNICAL DATA - Size 5001

Technical Features		
Rated torque	Nm / lb.ft	500 / 370
Rated current	A	1.70
Residual torque	Nm / lb.ft	5.0 / 3.7
Residual torque RR ⁽¹⁾	Nm / lb.ft	10 / 7.4
Coil resistance ⁽²⁾	Ω	11
Rotor Inertia	kg.m ²	331 .10 ⁻³
Min rotation speed ⁽³⁾	rpm	60
Max rotation speed	rpm	1000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

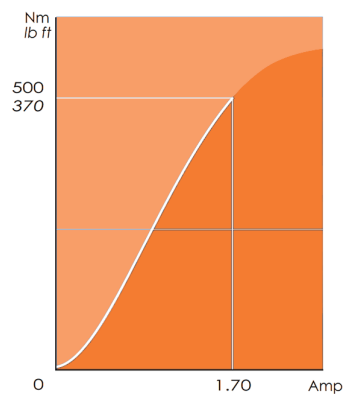
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⁽⁴⁾ max for rated life



Typical torque vs. current

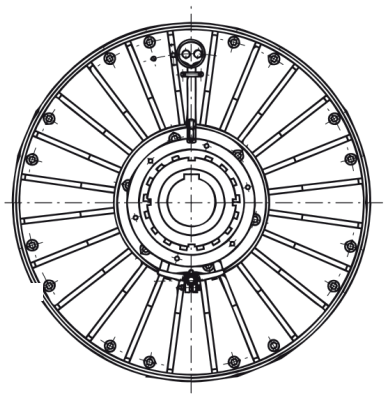
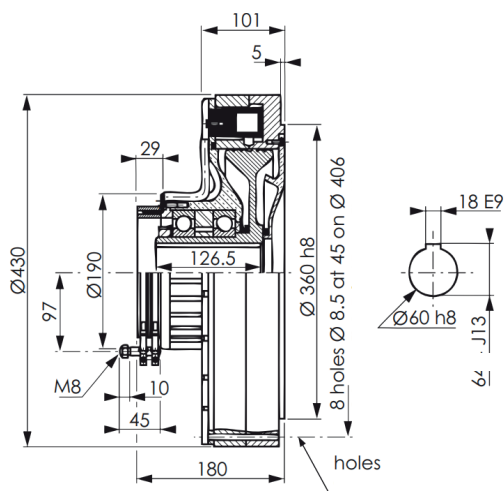
Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 5001	1000	73.0 / 161	ME330920-00
ERAT 5001	1800	93.0 / 205	ME330930-00

⁽⁵⁾ Notes on Power dissipation : The duty cycle (speed and torque variations) and the mounting of the EMP Brakes High Torque may have a great influence in the max. temperature.

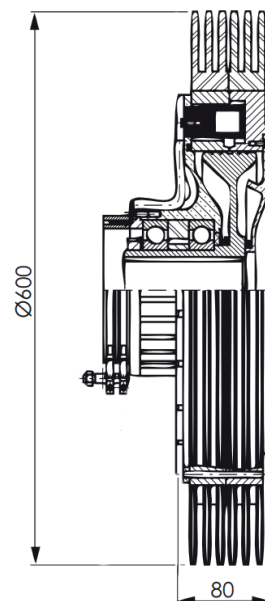
In order to optimize the selection of the device, please consult your local supplier.

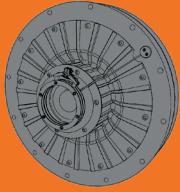
DIMENSIONS

EAT



ERAT





EMP Brakes - Through bore

TECHNICAL DATA - Size 10001

Technical Features		
Rated torque	Nm / lb.ft	1000 / 750
Rated current	A	1.70
Residual torque	Nm / lb.ft	10 / 7.5
Residual torque RR ⁽¹⁾	Nm / lb.ft	20 / 15
Coil resistance ⁽²⁾	Ω	20
Rotor Inertia	kg.m ²	809.10 ⁻³
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	1000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

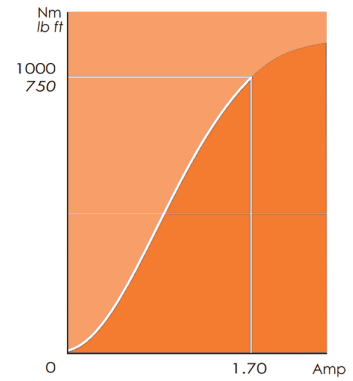
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⁽⁴⁾ max for rated life

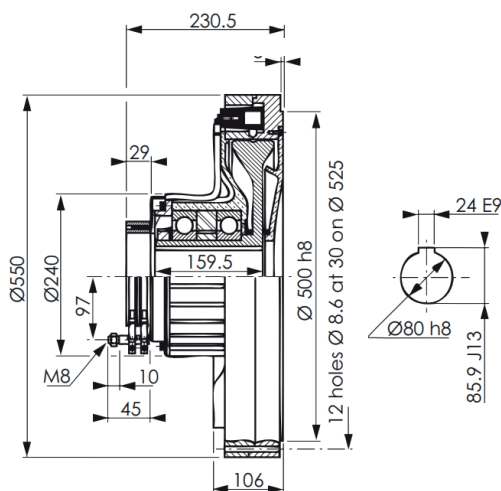


Typical torque vs. current

Range			
	Power (W)	Weight (kg/lb)	Part number
EAT 10001	1700	136 / 300	ME331220-00
ERAT 10001	3000	161 / 355	ME331230-00

DIMENSIONS

EAT



ERAT

