

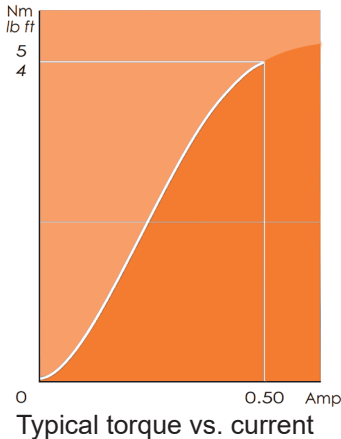
EMP Brakes - Through bore

TECHNICAL DATA - Size 50

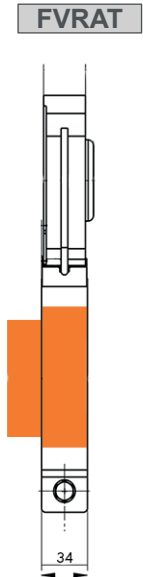
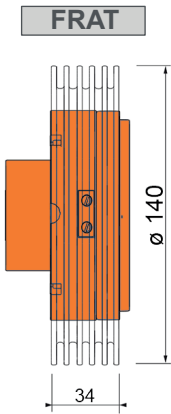
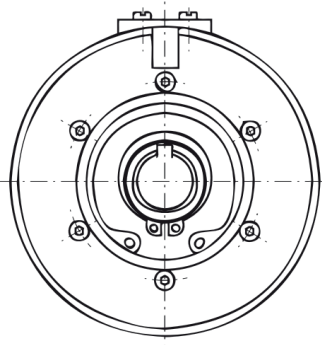
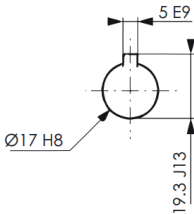
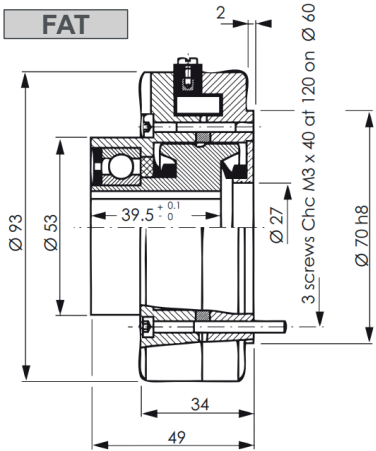
Technical Features		
Rated torque	Nm / lb.ft	5 / 4
Rated current	A	0.50
Residual torque	Nm / lb.ft	0.20 / 0.15
Residual torque RR ⁽¹⁾	Nm / lb.ft	0.40 / 0.30
Coil resistance ⁽²⁾	Ω	24
Rotor Inertia	kg.m ²	99.10 ⁻⁶
Min rotation speed ⁽³⁾	rpm	40
Max rotation speed	rpm	3000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

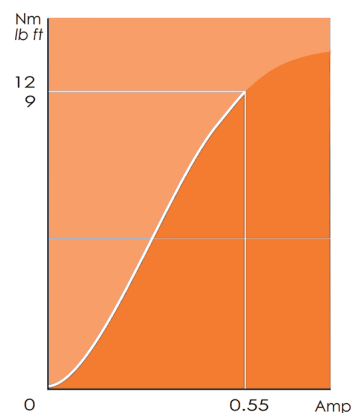
(¹) remnant rotor version advised for low rpm or vertical shaft mounting
(²) at 20°C (resistance varies with coil temperature)
(³) when speed is permanently under min. rpm, RR version is advised
Any further request, please consult your supplier
(⁴) max for rated life

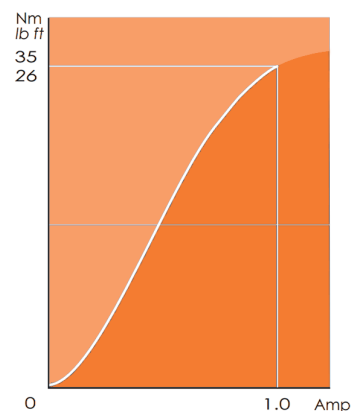
Range			
	Power (W)	Weight (kg/lb)	Part number
FAT 50	70	1.70 / 3.74	ME313920-00
FRAT 50	100	2.00 / 4.40	ME313925-00
FVRAT 50	500	1.00 / 2.20	ME313925-00 + ME126795-00



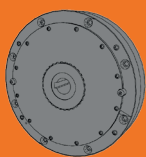
DIMENSIONS











EMP Brakes - Through bore

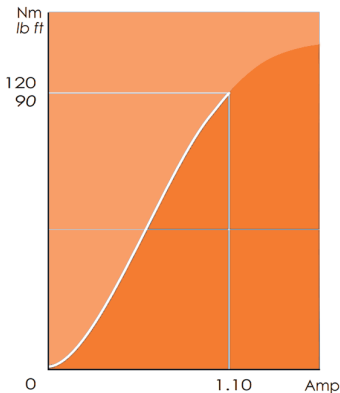
TECHNICAL DATA - Size 1200

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 / flb.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

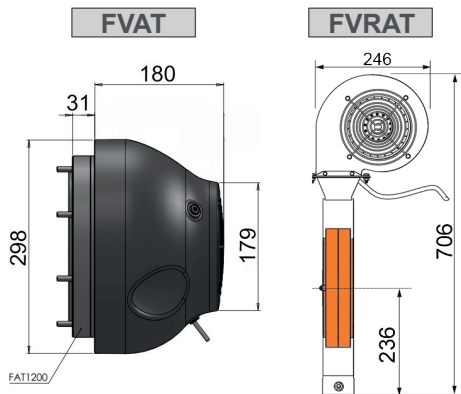
(¹) remnant rotor version advised for low rpm or vertical shaft mounting
(²) at 20°C (resistance varies with coil temperature)
(³) when speed is permanently under min. rpm, RR version is advised
Any further request, please consult your supplier
(⁴) max for rated life

Range			
	Power (W)	Weight (kg/lb)	Part number
FAT 1200	300	17.2 / 37.8	ME317400-00
FRAT 1200	550	25.0 / 55.0	ME322600-00
FVAT 1200	1300	28.0 / 61.6	ME317400-00 + ME136071-00
FVRAT 1200	2000	30.5 / 67.1	ME322600-00 + ME338800-00 ⁽⁵⁾

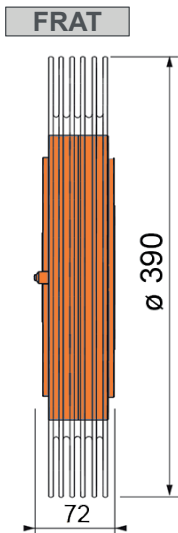
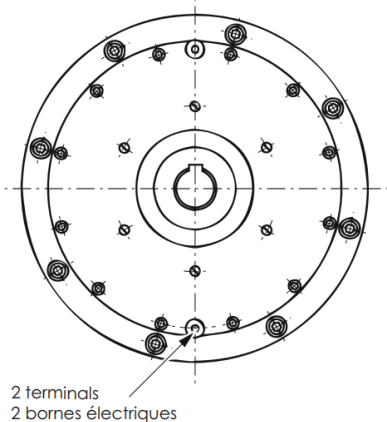
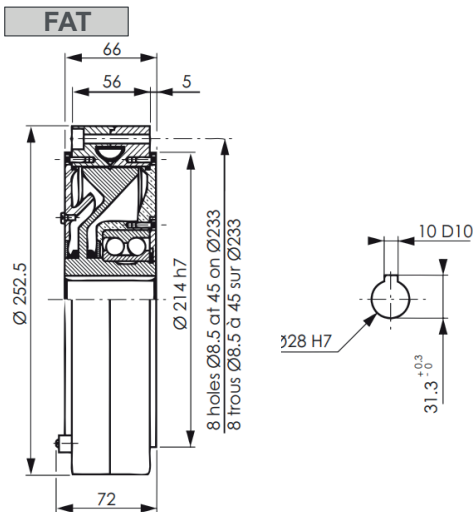
(⁵) US version : ME338500BK (110 V AC)

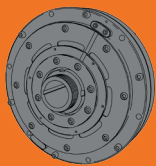


Typical torque vs. current



DIMENSIONS





EMP Brakes - Through bore

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 / flb.ft	4.0 / 1.5
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)

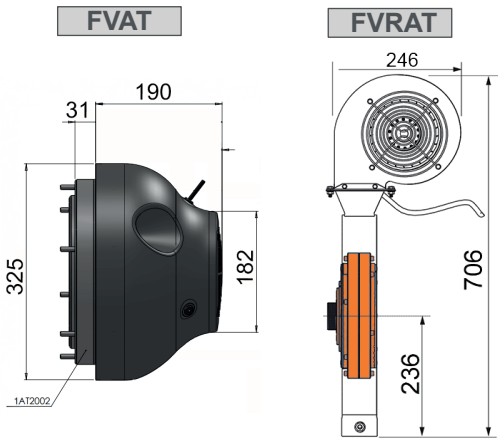
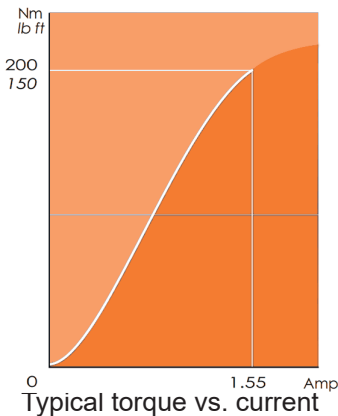
⁽³⁾ when speed is permanently under min. rpm, RR version is advised

Any further request, please consult your supplier

⁽⁴⁾ max for rated life

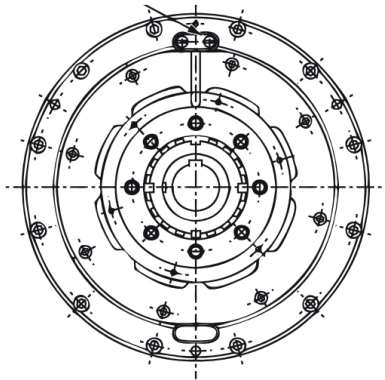
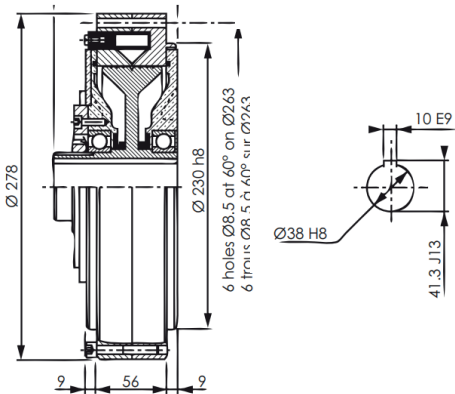
Range			
	Power (W)	Weight (kg/lb)	Part number
FAT 2002	400	24.0 / 52.8	ME330200-00
FRAT 2002	700	30.0 / 66.0	ME330210-00
FVAT 2002	1650	34.5 / 75.9	ME330200-00 + ME136072-00
FVRAT 2002 ⁽⁵⁾	2000	35.5 / 78.1	ME330210-00 + ME338800-00
FRATO 2002 ⁽⁵⁾	2500	28.0 / 61.6	ME330240-00

⁽⁵⁾ US version : ME338500BK (110 V AC)

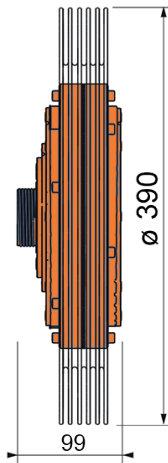


DIMENSIONS

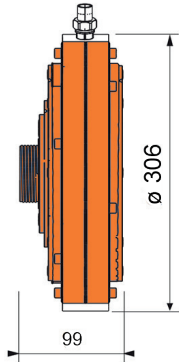
FAT

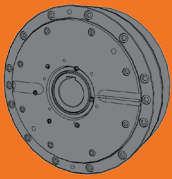


FRAT



FRATO





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 / flb.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

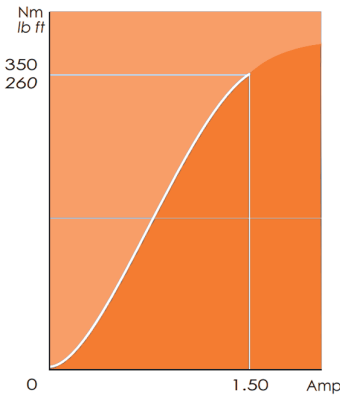
(¹) remnant rotor version advised for low rpm or vertical shaft mounting

(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

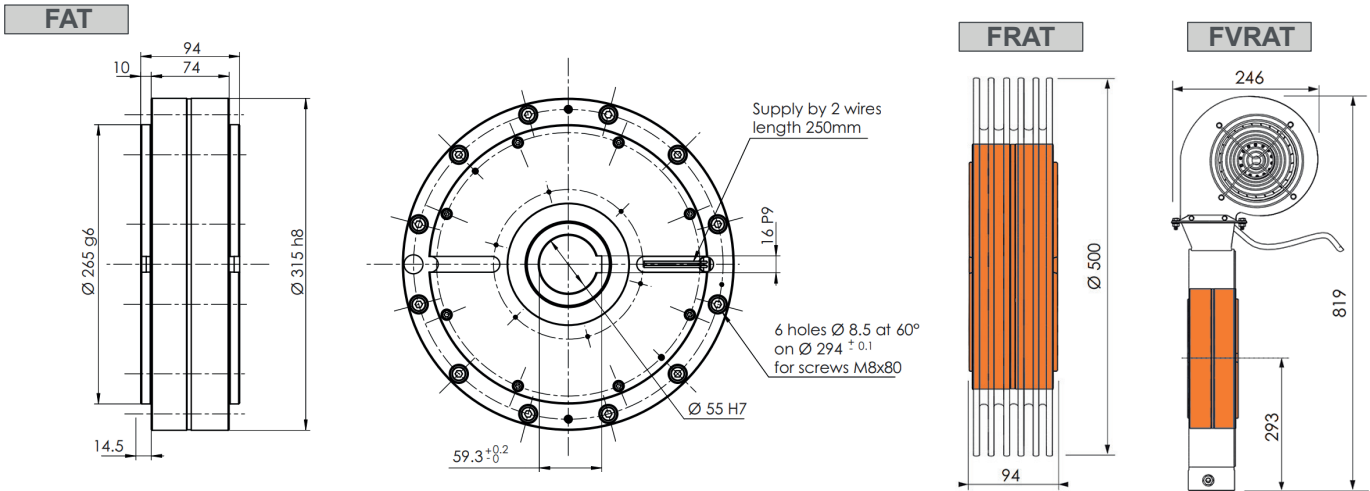


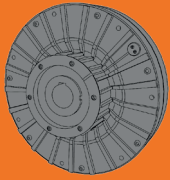
Typical torque vs. current

Range			
	Power (W)	Weight (kg/lb)	Part number
FAT 3500	470	38.0 / 83.6	ME126170-00
FRAT 3500	950	53.0 / 117	ME126338-00
FVAT 3500	3300	59.5 / 131	ME126338-00 + ME126764-00

(⁵) US version : ME338500BK (110 V AC)

DIMENSIONS



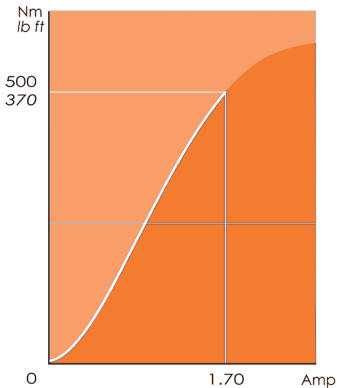


EMP FAT Brakes - Through bore

DATA SHEET - 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 / flb.ft	10 / 7.4
Coil resistance ⁽²⁾	Ω	11
Rotor Inertia	kg.m²	331 .10 ⁻³
Min rotation speed ⁽³⁾	rpm	60
Max rotation speed	rpm	1500
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

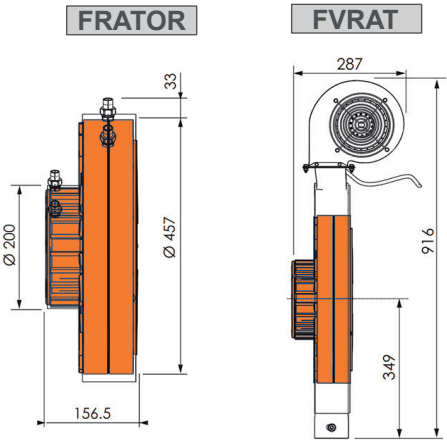
(¹) remnant rotor version advised for low rpm or vertical shaft mounting
(²) at 20°C (resistance varies with coil temperature)
(³) when speed is permanently under min. rpm, RR version is advised
Any further request, please consult your supplier
(⁴) max for rated life



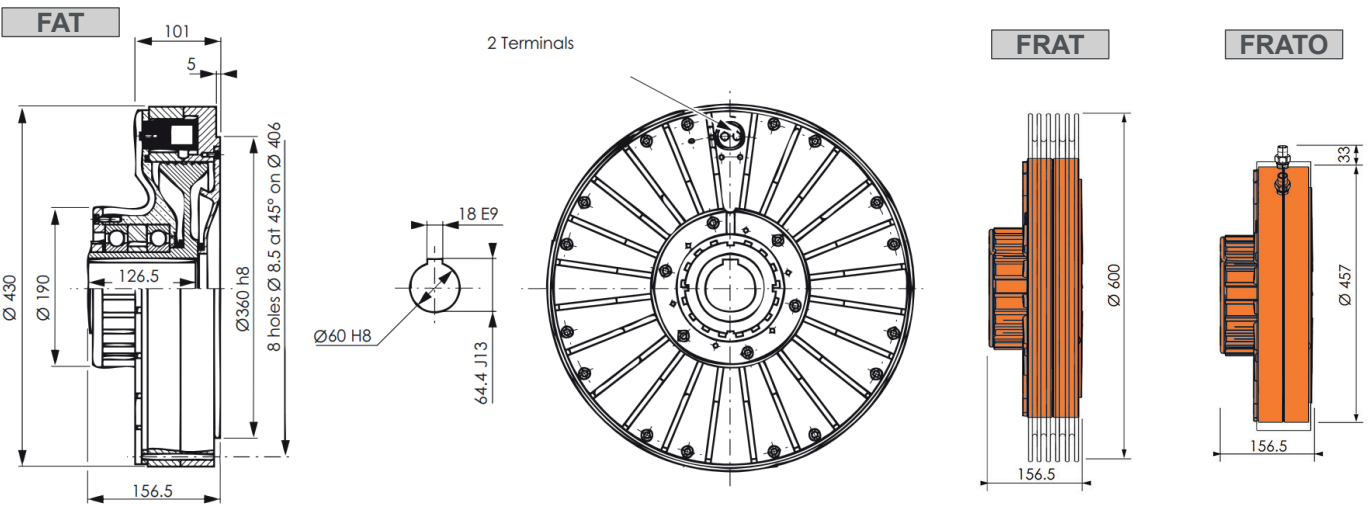
Typical torque vs. current

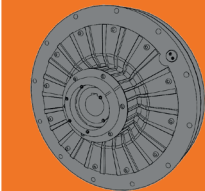
Range			
	Power (W)	Weight (kg/lb)	Part number
FAT 5001	1000	73.0 / 161	ME330900-00
FRAT 5001	1800	93.0 / 205	ME330910-00
FVRAT 5001	4500	101.0 / 222	ME330910-00 + ME350600-00
FRATO 5001 ⁽⁵⁾	4500	81.0 / 178	ME330940-00
FRATO_R 5001 ⁽⁵⁾	8000	83.0 / 183	ME330950-00

(⁵) water flow requirement: 180 l/h



DIMENSIONS





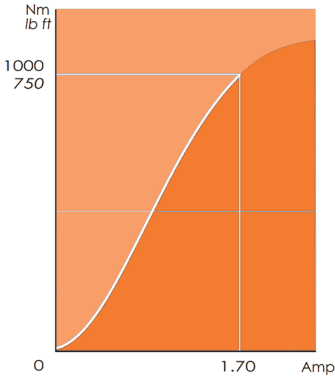
TECHNICAL DATA - Size 10001

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	60
Max rotation speed	rpm	1000
Rated Outside body Temp. ⁽⁴⁾	°C	100
Ultimate Outside body Temp.	°C	120

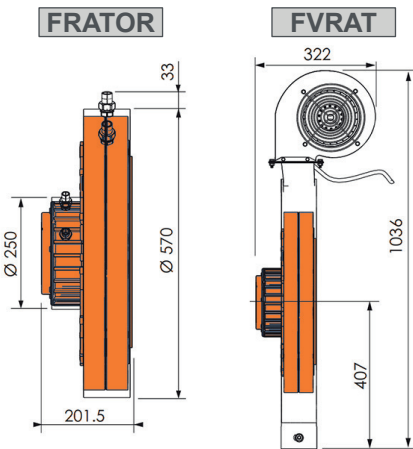
⁽¹⁾ remnant rotor version advised for low rpm or vertical shaft mounting
⁽²⁾ at 20°C (resistance varies with coil temperature)
⁽³⁾ when speed is permanently under min. rpm, RR version is advised
Any further request, please consult your supplier
⁽⁴⁾ max for rated life

Range			
	Power (W)	Weight (kg/lb)	Part number
FAT 10001	1700	135 / 297	ME331200-00
FRAT 10001	3000	160 / 352	ME331210-00
FVRAT 10001	7000	143 / 316	ME331210-00 + ME350700-00
FRATO 10001 ⁽⁵⁾	5000	155 / 341	ME331240-00
FRATO_R 10001 ⁽⁵⁾	10000	160 / 350	ME331250-00

⁽⁵⁾ water flow requirement : 180 l/h



Typical torque vs. current



DIMENSIONS

