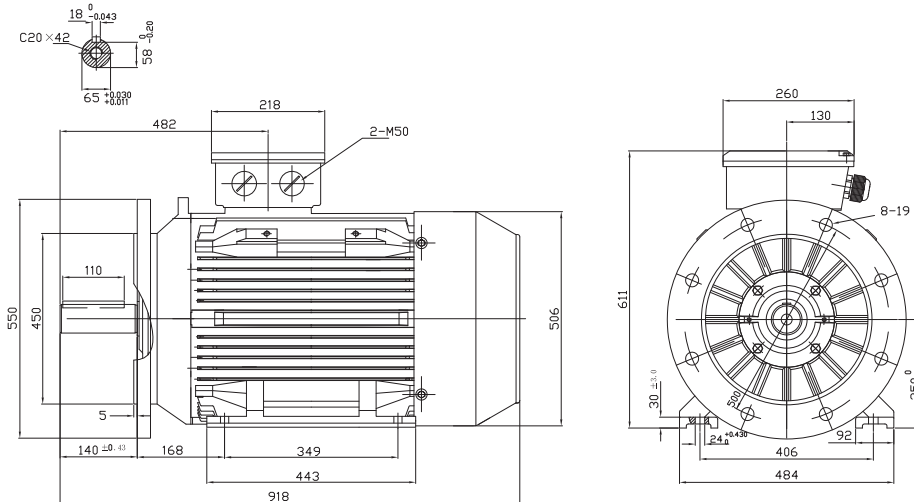


Type T3C 250M-4

Cod. R250M455,0AB5C00000T

Mounting position

IM	B35
IM	2001



Electrical data			
Rated motor power	55		Kw
Rated motor speed	1470		min ⁻¹ 50Hz
	1765		min ⁻¹ 60Hz
Rated motor frequency	50		Hz
Rated motor voltage(+/-10%)	400		VΔ/50Hz
	690		VY/50Hz
	480		VΔ/60Hz
	830		VY/60Hz
Rated motor torque	357.46		Nm (Mn)
Rated motor current	95.36	VΔ/50Hz	A (In)
	55.12	VY/50Hz	A (In)
Starting motor current	8.5		xIn
Starting motor torque	2.5		xMn
Breakdown motor torque	2.5		xMn
Starting			D.O.L.
Efficiency class	IE3		
Efficiency	50Hz	60Hz	
	94.6	95.7	100% load
	95.2	96.4	75% load
	94.5	94.9	50% load
Power factor cosφ	0.88	0.88	100% load

General data		
Frame size	250	
Mounting	B35	
Weight	472	Kg
Casing material	Cast iron	
Protection	IP	55
Insulation class	H	
Tropicalization	Yes	
Vibration class	A	
Duty	S1	
Direction of rotation	Bidirectional	
Method of cooling	IC	411
Cable entry	2-M50x1,5+1M16x1,5	
Standards	IEC/DIN/ISO/VDE/EN	
Execute at Standard	IEC 60034-1	
Feet removable	Yes	
Paintwork	7024	C2 standard
Thermal protections	n/a	

Site conditions	
Ambient temperature	from -20°C to +40°C
Altitude above sea level	1000 m

Mechanical data					
Noise level	LpA	70	dB(A)	Bearing DE side	6314-C3
	LwA	80	dB(A)	Bearing NDE side	6314-C3
Moment of inertia	0.76504		Kgm ²	Average bearing lifetime	40000 h
Bearings type			NSK	Relubrication interval L1 DE bearing	11500 h
Lubricants for bearings	See installation and maintenance manual			Relubrication interval L1 NDE bearing	11500 h
				Compensation ring	NDE SIDE

There may be differences between rating plate and calculated values.

Type Test Report

Type:T3C 250M-4 Voltage:400/690V

Output: 55.0KW Connection: Δ/Y

Frequency: 50Hz Duty:S1

Test Item		Standard		Result	Memo
		Nominal	Tol		
1.	Efficiency %			94.7	
2.	Power facto			0.880	
3.	Tem,Rise of stator winding K			77	
4.	Vibration mm/s				
5.	Noise LP dB (A) (Lw)				
6.	Breakdown Torque/Rated torque			2.63	
7.	Pullup torque/rated torque			1.73	
8.	Locked rotor Tor/Rated Tor			2.59	
9.	Locked rotor Cur/Rated Cur			8.30	
10.	High voltage test V			2380	
11.	Hot insulation Res.of stator winding MΩ			300.	
12.	Temperature of bearing °C			68	
13.	Unbalance of current %			0.10	
14.	Full load line current A			95.27	
15.	Full load inputkW			58.08	
16.	Full load toque N.m N.m			356.3	
17.	Max.temp.of enclosure surface °C			52.0	
18.	No load current A			30.07	
19.	Slip %			1.349	
20.	Stator winding phase resistance Ω (95°C)			0.11557	
21.	Stray load loss kW			0.4469	
22.	No load stator power kW			0.9073	
23.	Core loss kW			0.5948	
24.	Friction &windage loss kW			0.2142	
25.	Locked rotor power kW			235.8	
26.	Stator I ² R loss kW			1.064	
27.	Rotor I ² R loss kW			0.7611	
Conclusion:					

Reviewed:

Approved:

Tested:

Torque – Speed Curve

