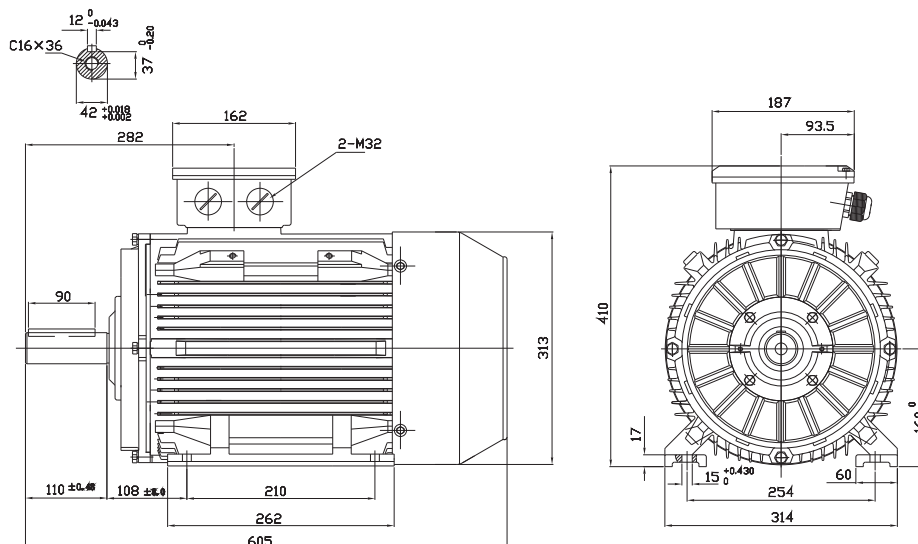


Type T3C 160M-6

Cod. R1600607,5B3B5G0000T

Mounting position

IM	B3
IM	1001

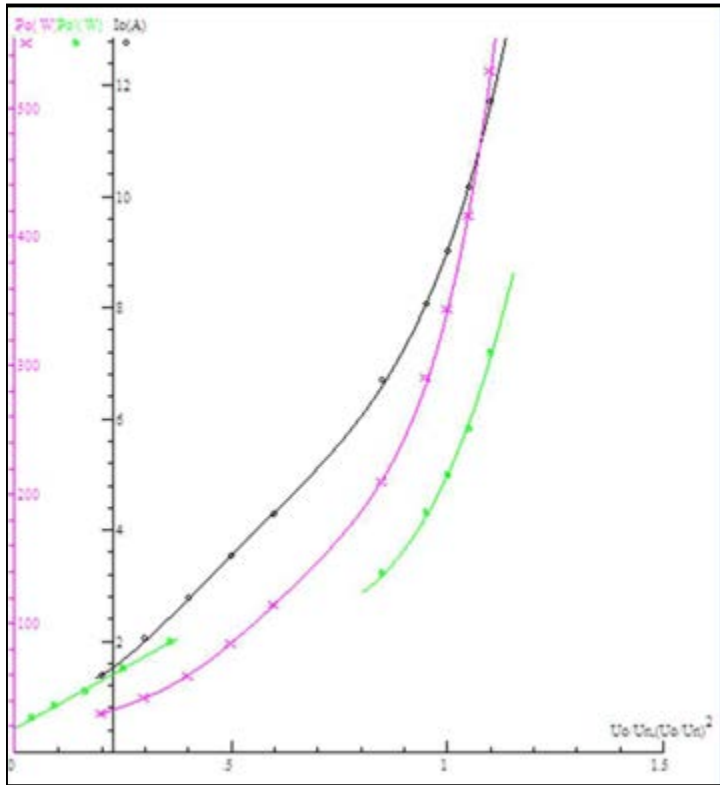


Electrical data				General data			
Rated motor power	7.5		Kw	Frame size	160		
Rated motor speed	955		min ⁻¹ 50Hz	Mounting	B3		
	1150		min ⁻¹ 60Hz	Weight	135.52		Kg
Rated motor frequency	50		Hz	Casing material	Cast iron		
Rated motor voltage(+/-10%)	400		VΔ/50Hz	Protection	IP	55	
	690		VY/50Hz	Insulation class/Temperature rise	F	/	B
	480		VΔ/60Hz	Tropicalization	Yes		
	830		VY/60Hz	Vibration class	N		
Rated motor torque	74.99		Nm (Mn)	Duty	S1		
Rated motor current	14.46	VΔ/50Hz	A (In)	Direction of rotation	Bidirectional		
	8.36	VY/50Hz	A (In)	Method of cooling	IC	411	
Starting motor current	7		xIn	Cable entry	2-M32x1,5+1M16x1,5		
Starting motor torque	2.4		xMn	Standards	IEC/DIN/ISO/VDE/EN		
Breakdown motor torque	2.7		xMn	Execute at Standard	IEC 60034-1		
Starting			D.O.L.	Feet removable	Yes		
Efficiency class	IE3			Paintwork	RAL	7024	dark grey
Efficiency	50Hz	60Hz		Thermal protections	PTC 150°C		Standard
	89.1	91.7	100% load				
	90.3	92.4	75% load				
	88	91	50% load				
Power factor cosφ	0.84	0.84	100% load				

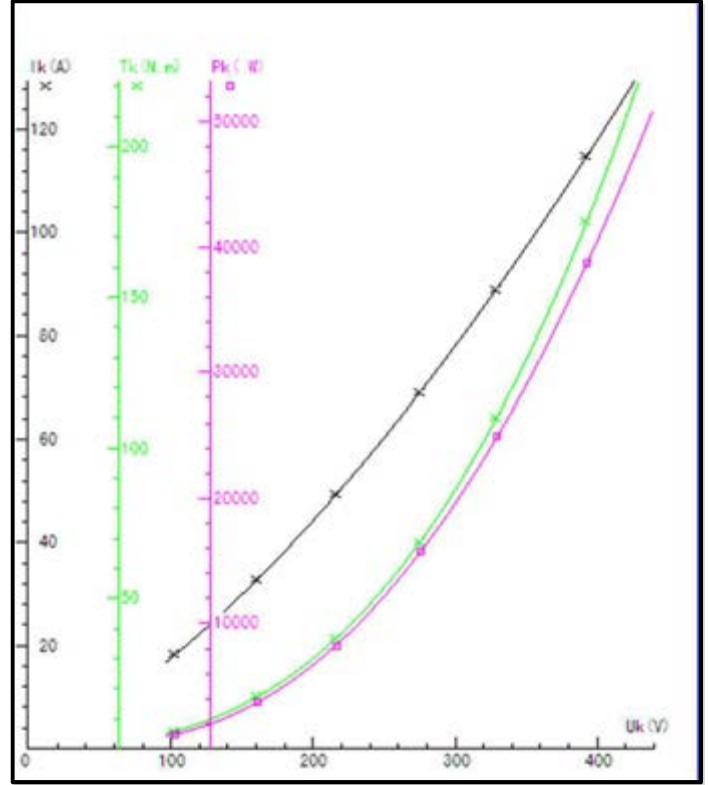
Mechanical data			
Noise level	LpA	61	dB(A)
	LwA	70	dB(A)
Moment of inertia	0.09852		Kgm ²
Bearings type			NSK
Lubricants for bearings	See installation and maintenance manual page 12		
			Bearing DE side
			Bearing NDE side
			Average bearing lifetime
		Relubrication interval L1 DE bearing	40000 h
		Relubrication interval L1 NDE bearing	24000 h
		Compensation ring	NDE SIDE standard

Type	T3C 160M-6		Output	7,5 kW	Voltage	400/690 V	Current	A	Frequency	50 Hz	Kind of test	
Duty	S1		Connection method	Δ / Y	Poles	6 P	Speed	r/min	Basic temp.	95 °C		
Insulation resistance	(M Ω)	Phase vs.Phase	Phase vs.Ground	DC Resistance determination(Ω)		over loading test	160% of Rated torque.for 15S		Pass			
	Cold state			Line R	Value		150% of Rated current.for 120S		Pass			
	Hot state	300		R _{UV}	0,9177		Inter-turns insulation test					
High-voltage	1760 V for		60 S	R _{UV}	0,9183	130% of Rated voltage.for 180		Pass				
	Phase vs.Phase		Pass	R _{VW}	0,9193	Over speed test						
	Phase vs.Ground		Pass	Ambient.	29,8 °C	120% of Rated max.frequency.for 120S		Pass				
Item			Result	Standard value	Tolerance (%)	Reference temp R (Ω)	1,7169	Hot state temp. (°C)	29,1			
Efficiency	100% P _n	(%)	88,96			Three-phase R deviation (%)	0,09	Middle part of enclosure temp.(°C)	105			
	75% P _n	(%)	89,495			No-load current (A)	9,013	Temp. of frame (°C)	69			
	50% P _n	(%)	88,619			No-load current deviation (%)	2,16	Temp. of Airin-N (°C)	106			
Power factor			0,756			No-load input power (W)	341,5	Temp. of Airout-D (°C)	29,1			
Temperature rise of stator winding	0 S	(K)	76,5			Full-load input current (A)	16,1	Environment humidity (%)				
	30/90 S	(K)	76,5			Full-load input power (W)	8430,5	Degree of protection (IP)	IP55			
Slip (%)			2,5071			Core loss (W)	192,73	Insulation class	F			
Locked current (A)			117,9			Friction and wind age loss(W)	18,915					
Locked rotor current /Rated current			7,32			StatorI2Rloss (W)	451,29	Cold checking test				
Locked torque (Nm)			183,7			RotorI2Rloss (W)	195,21	50 Hz 400/690 V No-load test data				
Locked rotor torque/Rated torque			2,48			Stary-load loss (W)	72,393	No-load current (A)				
Maximum torque (Nm)			202,2			wastage summation (W)	930,54	No-load power (W) 341,5				
Breakdown torque/Rated torque			2,72			Output (W)	7500	50 Hz V Locked test data				
Pull-up torque (Nm)			103,2			Rated torque (N.m)	74,225	Locked current (A)				
Pull-up torque/Rated torque			1,39			Full-load speed (r/min)	974,93	Locked power: (W)				
Noise Lp (A) dB												
Vibrancy (mm)												
Bearing temperature rise (K)			80									
Vibration Test												
Displacement (μ m)												
velocity (mm/s)												
Acceleration (m/s ²)						Mechanical check		Complete assembly, Flexible rotating, Correct Direction.				

NO LOAD



LOCKED ROTOR



LOAD

