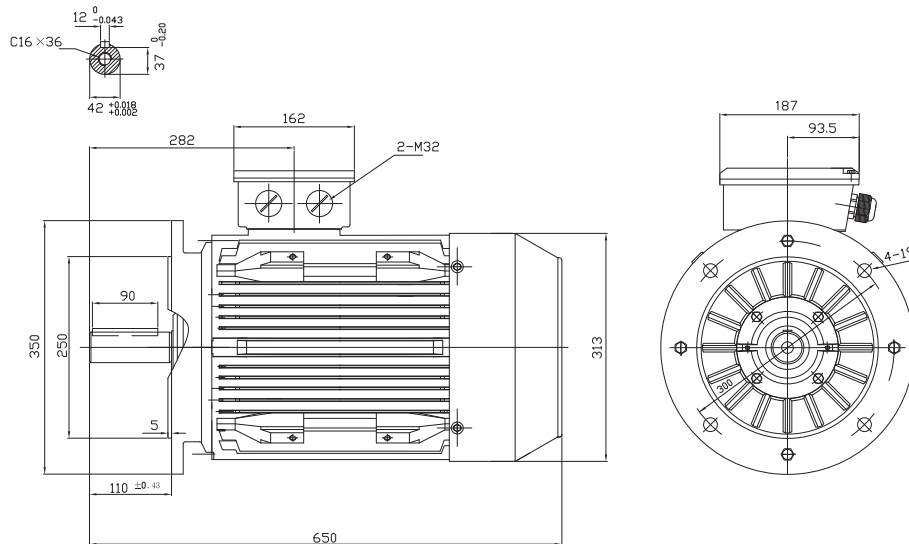


Type T3C 160L-4

Cod. R1600415,0B5B5G0000T

Mounting position

IM	B5
IM	3001

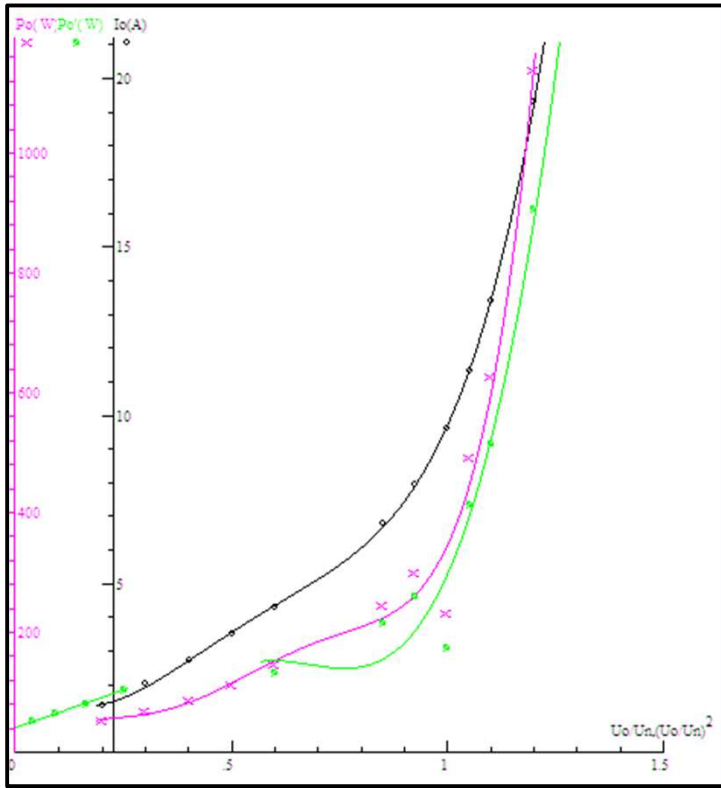


Electrical data				General data			
Rated motor power	15		Kw	Frame size	160		
Rated motor speed	1450		min ⁻¹ 50Hz	Mounting	B5		
	1740		min ⁻¹ 60Hz	Weight	151	Kg	
Rated motor frequency	50		Hz	Casing material	Cast iron		
Rated motor voltage(+/-10%)	400		VΔ/50Hz	Protection	IP	55	
	690		VY/50Hz	Insulation class/Temperature rise	F	/	B
	480		VΔ/60Hz	Tropicalization	Yes		
	830		VY/60Hz	Vibration class	N		
Rated motor torque	98.8		Nm (Mn)	Duty	S1		
Rated motor current	27.33	VΔ/50Hz	A (In)	Direction of rotation	Bidirectional		
	15.8	VY/50Hz	A (In)	Method of cooling	IC	411	
Starting motor current	8.5		xIn	Cable entry	2-M32x1,5+1M16x1,5		
Starting motor torque	2.5		xMn	Standards	IEC/DIN/ISO/VDE/EN		
Breakdown motor torque	2.8		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
	92.1	93	100% load				
	92.9	93.7	75% load				
	92.2	92.3	50% load				
Power factor cosφ	0.86	0.86	100% load				

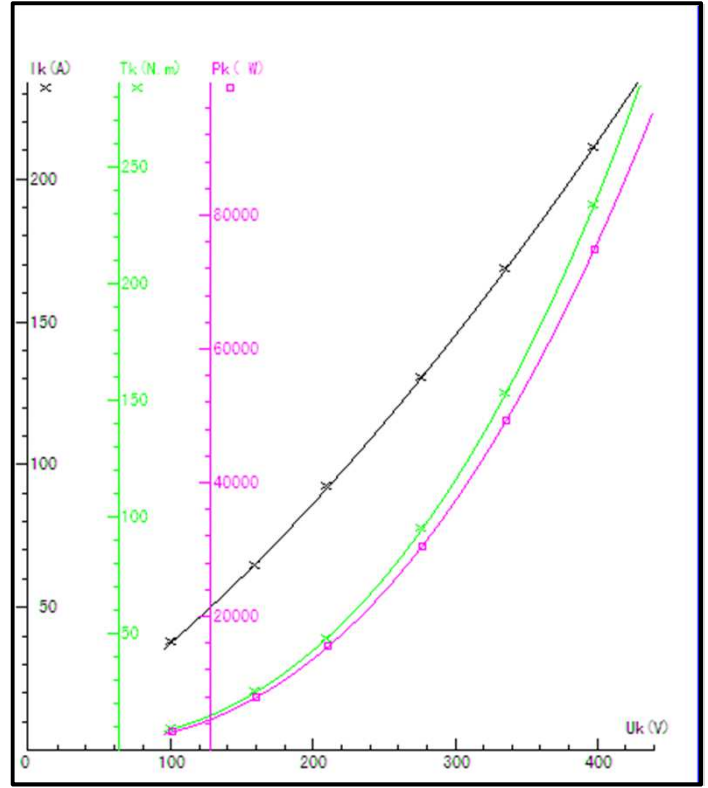
Mechanical data				Site conditions			
Noise level	LpA	67	dB(A)	Bearing DE side	6309-C3		
	LwA	76	dB(A)	Bearing NDE side	6309-C3		
Moment of inertia	0.1375		Kgm ²	Average bearing lifetime	40000	h	
Bearings type			NSK	Relubrication interval L1 DE bearing	21500	h	
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	21500	h	
				Compensation ring	NDE SIDE	standard	

Type	T3C 160L-4		Output	15 kW	Voltage	400/690 V	Current	A	Frequency	50 Hz	Kind of test
Duty	S1		Connection method	Δ / Y	Poles	4 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}	0,3367		Inter-turns insulation test				
High-voltage	1760 V for		60 S	R _{UV}	0,3361	130% of Rated voltage.for 180		Pass			
	Phase vs.Phase		Pass	R _{VW}	0,3368	Over speed test					
	Phase vs.Ground		Pass	Ambient.	21 °C	120% of Rated max.frequency.for 120S		Pass			
Item			Result	Standard value	Tolerance (%)	Reference temp R (Ω)	0,65072	Hot state temp. (°C)	23,9		
Efficiency	100% P _n	(%)	91,89			Three-phase R deviation (%)	0,13	Middle part of enclosure temp.(°C)	88,1		
	75% P _n	(%)	92,776			No-load current (A)	9,695	Temp. of frame (°C)	63		
	50% P _n	(%)	92,857			No-load current deviation (%)	3,97	Temp. of Airin-N (°C)	90,7		
Power factor			0,877			No-load input power (W)	345,12	Temp. of Airout-D (°C)	23,9		
Temperature rise of stator winding	0 S	(K)	66,1			Full-load input current (A)	26,86	Environment humidity (%)			
	30/90 S	(K)	66,1			Full-load input power (W)	16323	Degree of protection (IP)	IP55		
Slip		(%)	2,1265			Core loss (W)	245,96	Insulation class	F		
Locked current		(A)	212,9			Friction and wind age loss(W)	41,094				
Locked rotor current /Rated current			7,93			StatorI2Rloss (W)	465,75	Cold checking test			
Locked torque		(Nm)	236,8			RotorI2Rloss (W)	331,97	50 Hz 400/690 V No-load test data			
Locked rotor torque/Rated torque			2,42			Stary-load loss (W)	238,22	No-load current (A)			
Maximum torque		(Nm)	291,7			wastage summation (W)	1323	No-load power (W)		345,12	
Breakdown torque/Rated torque			2,98			Output (W)	15000	50 Hz V Locked test data			
Pull-up torque		(Nm)	154,4			Rated torque (N.m)	97,873	Locked current (A)			
Pull-up torque/Rated torque			1,58			Full-load speed (r/min)	1468,1	Locked power: (W)			
Noise Lp (A)		dB									
Vibrancy		(mm)									
Bearing temperature rise		(K)	72								
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

