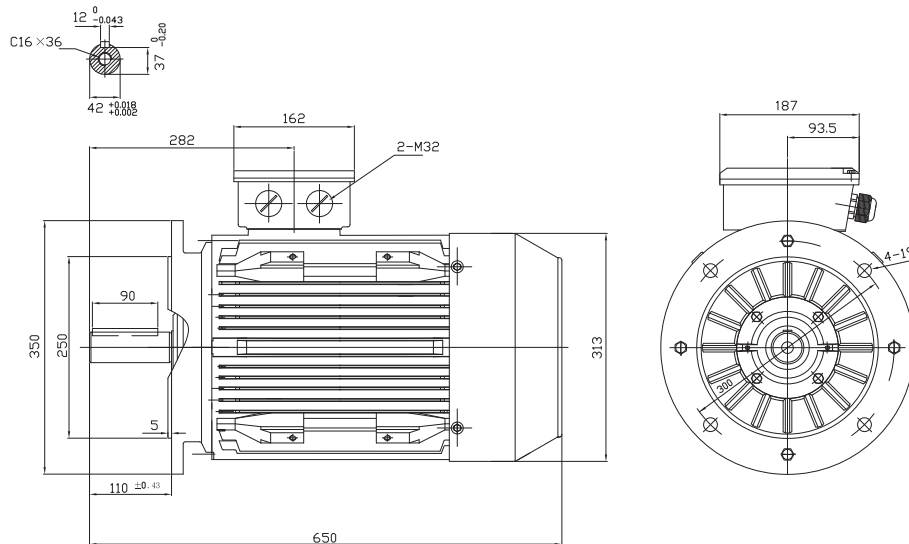


Type T3C 160L-2

Cod. R1600218,5B5B5G0000T

Mounting position

IM	B5
IM	3001

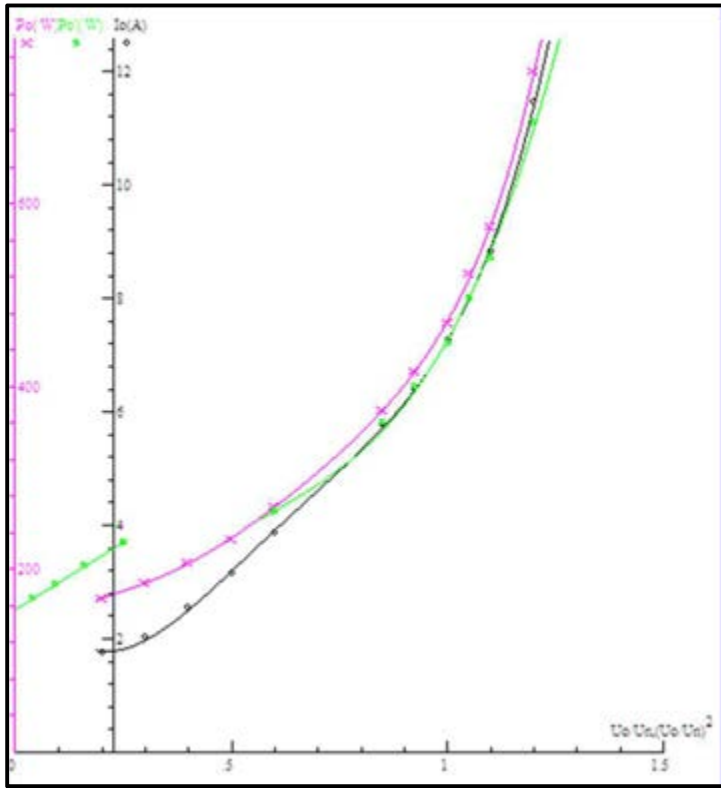


Electrical data				General data			
Rated motor power	18.5		Kw	Frame size	160		
Rated motor speed	2922		min <sup>-1</sup> 50Hz	Mounting	B5		
	3510		min <sup>-1</sup> 60Hz	Weight	178.08	Kg	
Rated motor frequency	50		Hz	Casing material	Cast iron		
Rated motor voltage(+/-10%)	400		VΔ/50Hz	Protection	IP	55	
	690		VY/50Hz	Insulation class/Temperature rise	F	/	B
	480		VΔ/60Hz	Tropicalization	Yes		
	830		VY/60Hz	Vibration class	N		
Rated motor torque	60.46		Nm (Mn)	Duty	S1		
Rated motor current	31.41	VΔ/50Hz	A (In)	Direction of rotation	Bidirectional		
	18.16	VY/50Hz	A (In)	Method of cooling	IC	411	
Starting motor current	8		xIn	Cable entry	2-M32x1,5+1M16x1,5		
Starting motor torque	2.4		xMn	Standards	IEC/DIN/ISO/VDE/EN		
Breakdown motor torque	2.9		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
	92.4	91.8	100% load				
	93.5	92.5	75% load				
	93.3	91.1	50% load				
Power factor cosφ	0.92	0.92	100% load				

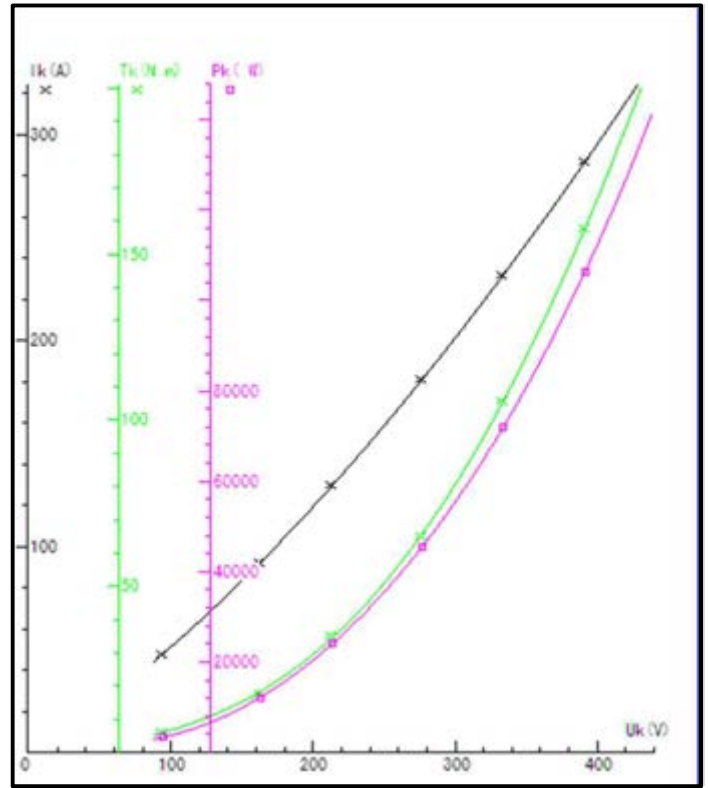
Mechanical data				Site conditions			
Noise level	LpA	75	dB(A)	Bearing DE side	6309-C3		
	LwA	84	dB(A)	Bearing NDE side	6309-C3		
Moment of inertia	0.07668		Kgm <sup>2</sup>	Average bearing lifetime	40000	h	
Bearings type			NSK	Relubrication interval L1 DE bearing	12000	h	
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	12000	h	
				Compensation ring	NDE SIDE	standard	

Type	T3C 160L-2		Output	18,5 kW	Voltage	400/690 V	Current	A	Frequency	50 Hz	Kind of test
Duty	S1		Connection method	$\Delta/Y$	Poles	2 P	Speed	r/min	Basic temp.	95 °C	
Insulation resistance	(M $\Omega$ )	Phase vs.Phase	Phase vs.Ground	DC Resistance determination( $\Omega$ )		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 <sub>UW</sub>	0,2259		Inter-turns insulation test				
High-voltage	1760 V for 60 S			R <sub>UV</sub>	0,226	130% of Rated voltage.for 180		Pass			
	Phase vs.Phase		Pass	R <sub>VW</sub>	0,2261	Over speed test					
	Phase vs.Ground		Pass	Ambient.	21,3 °C		120% of Rated max.frequency.for 120S		Pass		
Item			Result	Standard value	Tolerance (%)	Reference temp R ( $\Omega$ )	0,43648	Hot state temp. (°C)	24,8		
Efficiency	100%P <sub>n</sub>	(%)	92,70			Three-phase R deviation (%)	0,04	Middle part of enclosure temp.(°C)	90,1		
	75%P <sub>n</sub>	(%)	93,208			No-load current (A)	7,258	Temp. of frame (°C)	44		
	50%P <sub>n</sub>	(%)	92,881			No-load current deviation (%)	4,75	Temp. of Airin-N (°C)	88,7		
Power factor			0,927			No-load input power (W)	471,49	Temp. of Airout-D (°C)	24,8		
Temperature rise of stator winding	0 S	(K)	62			Full-load input current (A)	31,08	Environment humidity (%)			
	30/90 S	(K)	62			Full-load input power (W)	19956	Degree of protection (IP)	IP55		
Slip (%)			1,4828			Core loss (W)	292,66	Insulation class	F		
Locked current (A)			295,2			Friction and wind age loss(W)	156,5				
Locked rotor current /Rated current			9,5			StatorI2Rloss (W)	412,17	Cold checking test			
Locked torque (Nm)			166,4			RotorI2Rloss (W)	285,46	50 Hz 400/690 V No-load test data			
Locked rotor torque/Rated torque			2,79			Stary-load loss (W)	309,58	No-load current (A)			
Maximum torque (Nm)			197			wastage summation (W)	1456,4	No-load power (W)	471,49		
Breakdown torque/Rated torque			3,31			Output (W)	18500	50 Hz V Locked test data			
Pull-up torque (Nm)			69,49			Rated torque (N.m)	59,595	Locked current (A)			
Pull-up torque/Rated torque			1,17			Full-load speed (r/min)	2955,5	Locked power: (W)			
Noise Lp (A)		dB									
Vibrancy		(mm)									
Bearing temperature rise		(K)	60								
Vibration Test											
Displacement		( $\mu$ m)									
velocity		(mm/s)									
Acceleration		(m/s <sup>2</sup> )				Mechanical check		Complete assembly, Flexible rotating, Correct Direction.			

NO LOAD



LOCKED ROTOR



LOAD

