

**MOTOR MAC QI 160 X**

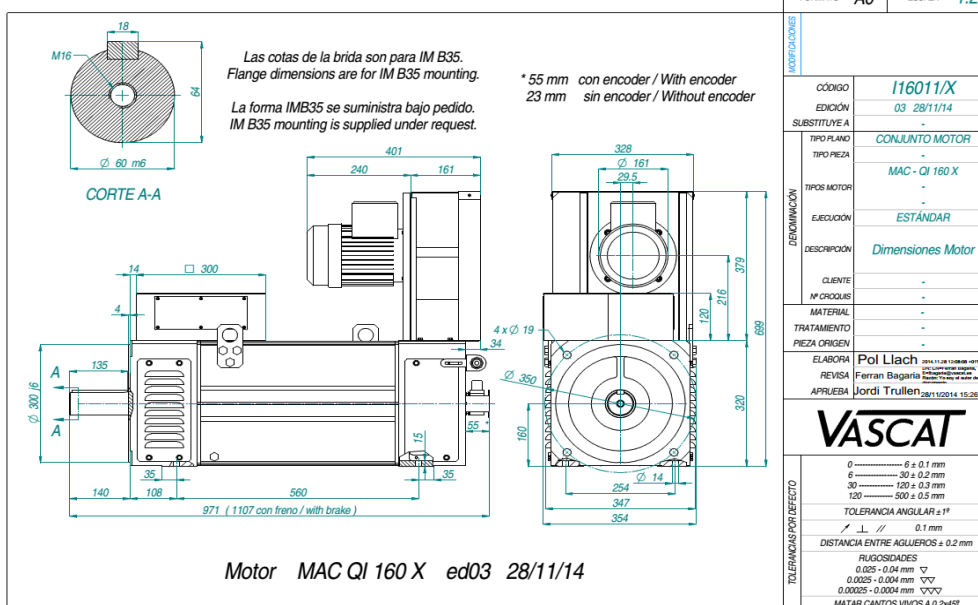
- Hoja de Datos Técnicos -
- Technical Datasheet -

Código DT-QI160X
Edición 03
Página 1/1
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Ventilador / Fan			Rodamientos <i>Bearings</i>		Delantero <i>Drive End</i>	6312 ZZ C3	Trasero <i>Non Drive End</i>	6310 ZZ C3
Tensión / <i>Voltage</i>	230/400 V	460 V	Momento de inercia <i>Rotor Inertia</i>			J = 0,432 Kg m ²	Peso Motor <i>Motor Weight</i>	355 Kg
Frec. / <i>Frequency</i>	50 Hz	60 Hz	Protección <i>Protection Degree</i>			IP 23	Construcción <i>Mounting</i>	IM B3 / B35
Potencia / <i>Power</i>	0,75 KW	0,86 KW	Refrigeración <i>Cooling</i>			IC06		
Velocidad / <i>Speed</i>	2850 rpm	3350 rpm	Nivel de ruido <i>Noise Level</i>			< 80 dB	Velocidad máxima mecánica <i>Max. Mechanical Speed</i>	
Caudal / <i>Air flow</i>	1200 m3/h					5000 rpm		
Presión / <i>Pressure</i>	800 Pa							
Equilibrado grado <i>Balancing degree</i>	A	Aislamiento Clase <i>Insulation Class</i>	F	Protección Térmica <i>Thermal Protection</i>			PTC 140 °C	Ambiente <i>Ambient</i>
						< 40 °C < 1000 m		
Freno de Bloqueo (opcional) <i>Holding Brake (optional)</i>			300 Nm	24 Vdc	2.5 A	60 W	18 Kg	J = 0.0017 Kg m ²
Tensión de Base del Motor <i>Motor Base Voltage</i>			Vb	400 V	Tensión Máxima de Salida del Convertidor <i>Inverter max. Output Voltage</i>			
					Vc 400 V			

Servicio / Service S1							Servicio / Service S6 - 40%						
Bobinado Winding	Nm	A	KW	rpm	Hz	Velocidad a Pot.Cte Const. Power Speed. (rpm)	Nm	A	KW	rpm	Hz	Velocidad a Pot.Cte Const. Power Speed. (rpm)	Corriente en vacío No Load Current (A)
A41	640	69	34.5	515	18	1490	946	97	51.0	515	18	1100	32
B41	640	79	40.5	604	21	1750	947	110	59.9	604	21	1290	35
C41	640	91	48.5	723	25	2090	949	129	71.8	723	25	1540	38
D41	640	109	58.6	874	30	2530	948	153	86.7	874	30	1870	47
E41	640	136	74.6	1113	38	3220	951	194	110.8	1113	38	2370	52
F41	640	156	84.7	1264	43	3660	947	217	125.2	1264	43	2700	70
G41	640	181	100.7	1503	51	4350	948	255	149.2	1503	51	3210	77
H41	640	217	120.9	1804	61	5000	947	304	178.9	1804	61	3850	95
E42	620	229	126.9	1955	66	5000	917	320	187.6	1955	66	4170	104
F42	600	255	141.7	2255	76	5000	887	355	209.3	2255	76	4800	116
G42	570	285	157.9	2646	89	5000	841	395	233.0	2646	89	5000	134
H42	520	318	175.2	3218	108	5000	766	438	258.1	3218	108	5000	156

Otras velocidades disponibles bajo consulta a nuestra O.T. / Other speeds available on request



Datos Técnicos sujetos a modificaciones sin previo aviso / Technical data are subject to changes without prior notice

Elabora:	Revisa:	Aprueba:
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	Servicio / Service S1						Servicio / Service S6 - 40%						
Bobinado Winding	Nm	A	KW	rpm	Hz	Velocidad a Pot.Cte Const. Power Speed. (rpm)	Nm	A	KW	rpm	Hz	Velocidad a Pot.Cte Const. Power Speed. (rpm)	Corriente en vacío No Load Current (A)
H42	520	318	175.2	3218	108	5000	766	438	258.1	3218	108	5000	156

Curva de Par / Torque Diagram

This diagram plots torque (Nm) on the y-axis (0 to 900) against speed (rpm) on the x-axis (0 to 6000). It shows the torque limits for two services and the resulting load curves.

- Limite Servicio S6 Limit for Service S6:** A thin black line that is constant at approximately 760 Nm from 0 to 3200 rpm, then decreases to approximately 490 Nm at 5000 rpm.
- Limite Servicio S1 Limit for Service S1:** A thick black line that is constant at approximately 520 Nm from 0 to 3200 rpm, then decreases to approximately 330 Nm at 5000 rpm.
- Carga / Load Nm 1:** A blue line representing the load for Service S1, which follows the S1 limit curve.
- Carga / Load Nm 2:** A red line representing the load for Service S6, which follows the S6 limit curve.

rpm	Limite Servicio S6 (Nm)	Limite Servicio S1 (Nm)
0	760	520
1000	760	520
2000	760	520
3000	760	520
3200	760	520
4000	620	420
5000	490	330

The diagram is a line graph titled "Curva de Potencia / Power Diagram". The vertical axis is labeled "Potencia / Power (kW)" and ranges from 0 to 300 in increments of 50. The horizontal axis is labeled "rpm" and ranges from 0 to 6000 in increments of 1000. There are four data series plotted:

- Limite Servicio S6 Limit for Service S6:** A thin black line that starts at (0,0), increases linearly to approximately (3200, 255), and then remains constant at 255 kW up to 5000 rpm.
- Limite Servicio S1 Limit for Service S1:** A thick black line that starts at (0,0), increases linearly to approximately (3200, 175), and then remains constant at 175 kW up to 5000 rpm.
- Carga / Load KW 1:** A blue line that is not visible on the graph, likely representing a load that is zero or very close to zero.
- Carga / Load KW 2:** A red line that is not visible on the graph, likely representing a load that is zero or very close to zero.

The graph shows that the power limits for Service S6 and Service S1 are reached at approximately 3200 rpm and remain constant thereafter. The load for KW 1 and KW 2 is not shown, suggesting it is zero or negligible.