



MOTOR MAC QI 160 L

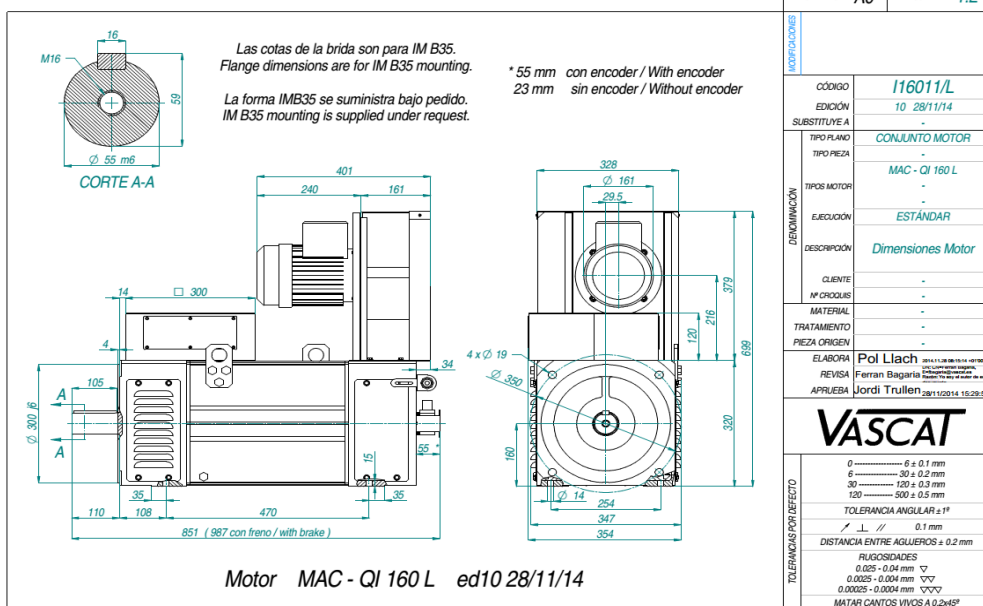
- Hoja de Datos Técnicos -
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Código DT-QI160L
Edición 13
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Ventilador / Fan			Rodamientos <i>Bearings</i>		Delantero <i>Drive End</i>	6312 ZZ C3	Trasero <i>Non Drive End</i>	6310 ZZ C3	
Tensión / <i>Voltage</i>	230/400 V	460 V	Momento de inercia <i>Rotor Inertia</i>			J = 0,352 Kg m ²	Peso Motor <i>Motor Weight</i>	301 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	510	50	25.8	484	17	1400	757	71	38.4	484	17	1030	20
B41	510	58	30.7	574	20	1660	757	83	45.5	574	20	1220	23
C41	510	70	37.1	695	24	2010	756	98	55.0	695	24	1480	29
D41	510	87	48.3	904	31	2620	758	124	71.7	904	31	1930	32
E41	510	104	57.9	1084	37	3140	758	147	85.9	1084	37	2310	40
F41	510	115	64.3	1204	41	3490	757	163	95.4	1204	41	2570	46
G41	510	130	72.4	1355	46	3920	756	183	107.3	1355	46	2890	53
H41	510	148	83.5	1564	53	4530	757	209	123.9	1564	53	3340	59
I41	510	172	97.9	1834	62	5000	757	244	145.3	1834	62	3910	69
F42	510	198	114.0	2134	72	5000	757	282	169.1	2134	72	4540	78
G42	500	221	124.4	2375	80	5000	741	310	184.1	2375	80	5000	95
H42	490	248	140.4	2736	92	5000	726	348	207.9	2736	92	5000	106
I42	480	285	160.1	3186	107	5000	710	398	236.8	3186	107	5000	127

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)
F41	510	115	64.3	1204	41	3490	757	163	95.4	1204	41	2570	46

Curva de Par / Torque Diagram

This diagram plots torque (Par / Torque in Nm) on the y-axis against rotational speed (rpm) on the x-axis. The y-axis ranges from 0 to 800 Nm, and the x-axis ranges from 0 to 5000 rpm. Two service curves are shown: Service S6 (thin black line) and Service S1 (thick black line). Both curves show a constant torque region followed by a linear decrease. Service S6 has a higher torque limit than Service S1. Two load curves are also indicated: 'Carga / Load Nm 1' (blue line) and 'Carga / Load Nm 2' (red line), both showing a linear decrease from 800 Nm at 0 rpm to 0 Nm at 5000 rpm.

rpm	Límite Servicio S6 Limit for Service S6 (Nm)	Límite Servicio S1 Limit for Service S1 (Nm)
0	750	510
1200	750	510
1500	600	420
2000	450	320
2500	350	250
3000	250	200
3500	150	150
4000	100	100
4500	50	50

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 120 in increments of 20. The horizontal axis is labeled "rpm" and ranges from 0 to 5000 in increments of 500. There are four data series plotted:

- Limite Servicio S6 Limit for Service S6:** A black line that starts at (0,0), rises linearly to (1200, 95), remains constant at 95 KW until 2600 rpm, and then decreases linearly to (4600, 45).
- Limite Servicio S1 Limit for Service S1:** A black line that starts at (0,0), rises linearly to (1200, 65), remains constant at 65 KW until 3500 rpm, and then decreases linearly to (4600, 45).
- Carga / Load KW 1:** A blue line that follows the S6 limit line from 0 to 1200 rpm, then follows the S1 limit line from 1200 to 3500 rpm, and finally follows the common downward slope from 3500 to 4600 rpm.
- Carga / Load KW 2:** A red line that follows the S1 limit line from 0 to 1200 rpm, then follows the S6 limit line from 1200 to 2600 rpm, and finally follows the common downward slope from 2600 to 4600 rpm.

The graph shows that the total load (KW 1 + KW 2) is constrained by the service limits. The S6 limit is higher than the S1 limit until 2600 rpm, after which the S1 limit becomes the binding constraint for the total load.