

**MOTOR MAC QI 160 L**

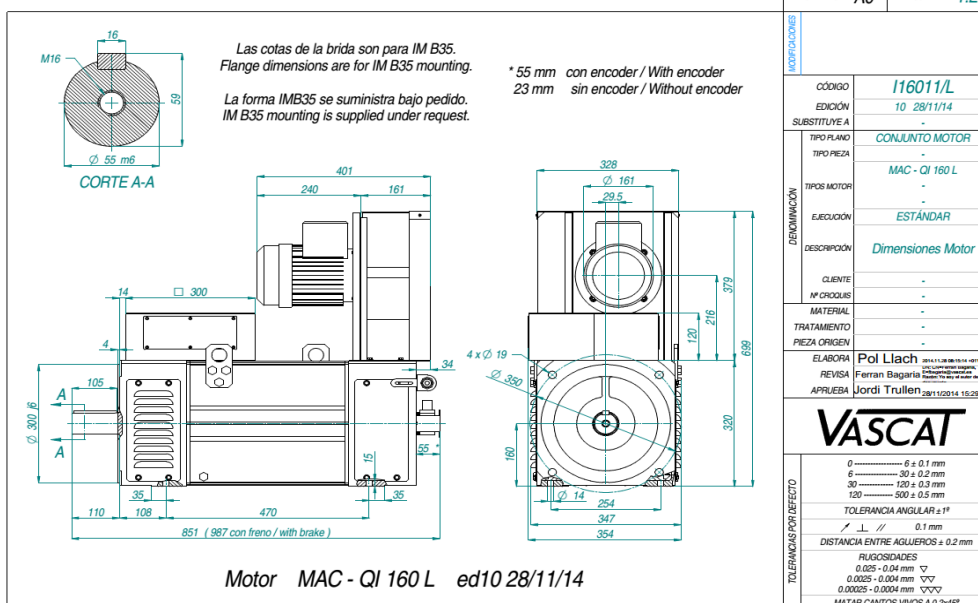
- Hoja de Datos Técnicos -
- Technical Datasheet -

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 / Voltage	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. / Frequency	50 Hz	60 Hz	Protección <i>Protection Degree</i>		IP 23	Construcción <i>Mounting</i>		Refrigeración <i>Cooling</i>
Potencia / Power	0,75 KW	0,86 KW	Nivel de ruido <i>Noise Level</i>		< 80 dB		Velocidad máxima mecánica <i>Max. Mechanical Speed</i>	
Velocidad / Speed	2850 rpm	3350 rpm	Protección Térmica <i>Thermal Protection</i>		PTC 140 °C		Ambiente <i>Ambient</i>	
Caudal / Air flow	1200 m ³ /h		Aislamiento Clase <i>Insulation Class</i>		F		< 40 °C < 1000 m	
Presión / Pressure	800 Pa		Equilibrado grado <i>Balancing degree</i>		A			
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 <i>Winding</i>	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)
E41	510	104	57.9	1084	37	3140	758	147	85.9	1084	37	2310	40

Curva de Par / Torque Diagram

This diagram illustrates the torque limits for two different services, S6 and S1, plotted against rotational speed (rpm). The y-axis represents torque in Nm, ranging from 0 to 800. The x-axis represents rpm, ranging from 0 to 4500. Two load curves are also shown: Carga / Load Nm 1 (blue) and Carga / Load Nm 2 (red).

rpm	Límite Servicio S6 Limit for Service S6 (Nm)	Límite Servicio S1 Limit for Service S1 (Nm)	Carga / Load Nm 1 (Nm)	Carga / Load Nm 2 (Nm)
0	750	510	510	510
1000	750	510	510	510
1500	550	380	380	380
2000	420	280	280	280
2500	300	220	220	220
3000	200	180	180	180
3500	150	140	140	140
4000	100	100	100	100
4200	90	90	90	90

Curva de Potencia / Power Diagram

This diagram illustrates the power requirements for two different services (S1 and S6) and two loads (KW 1 and KW 2) across a range of rotational speeds (rpm). The Y-axis represents Potencia / Power (KW) from 0 to 100, and the X-axis represents rpm from 0 to 4500.

Legend:

- Limite Servicio S6 Limit for Service S6 (Thin black line)
- Limite Servicio S1 Limit for Service S1 (Thick black line)
- Carga / Load KW 1 (Blue line)
- Carga / Load KW 2 (Red line)

Data Series Description:

- Limite Servicio S6 (Thin black line):** Starts at (0,0), rises linearly to (1100, 86), remains constant until 2300 rpm, then decreases to (3100, 58) and continues to decrease.
- Limite Servicio S1 (Thick black line):** Starts at (0,0), rises linearly to (1100, 58), remains constant until 3100 rpm, then decreases to (4200, 40).
- Carga / Load KW 1 (Blue line):** Not visible in the plot, likely zero or below the minimum.
- Carga / Load KW 2 (Red line):** Not visible in the plot, likely zero or below the minimum.

rpm	Limite Servicio S6 (KW)	Limite Servicio S1 (KW)
0	0	0
1100	86	58
2300	86	58
3100	58	58
4200	40	40