

HIGH DYNAMIC ELECTRICAL MACHINES



MAC QW Series Liquid-cooled asynchronous servomotors

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Liquid-cooled asynchronous servomotors

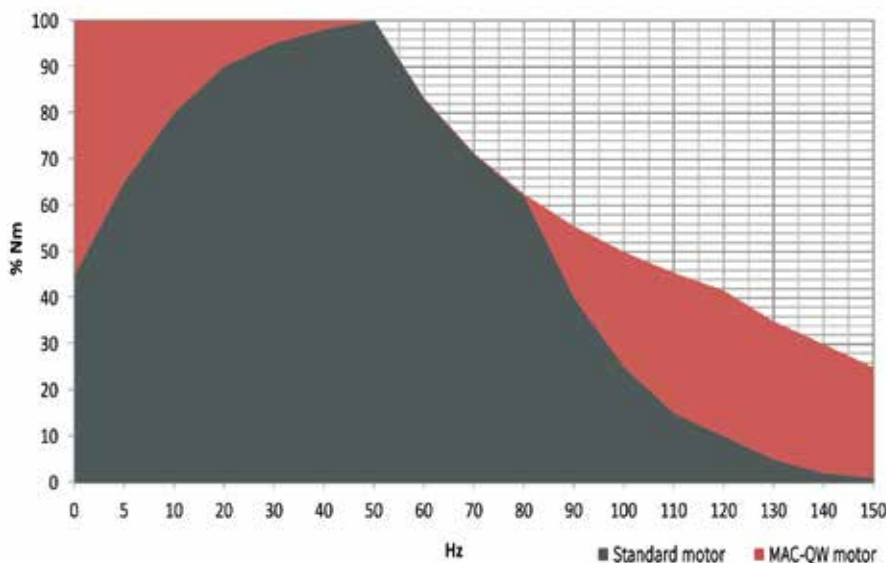
Constructive details



From 40 to 675 kW
Frame sizes 225-315 mm

- Superior dynamic response:
Low inertia
- High power density:
Compactness
- Long life expectancy
- Large field-weakening range
- Low noise
- Low vibration

Performance curve



Main advantages

- Excellent dynamic performance
- No warming problems in low speed operation
- Exceptional field weakening operation
- High overload capacity
- Repair and maintenance cost savings
- Inverter size optimization:
Customized windings
- Dimension savings:
High power density

MAC QW Series

- Cooling type: IC 97W (Liquid-cooled)
- Protection degree: IP 54
- Nominal speed: 261 – 1893 rpm
- Maximum speed: up to 4000 rpm
- Nominal power: 39 – 675 kW
- Nominal torque: 725 – 4800 Nm

Suitable
for use as
Direct
Drives

Customized
Solutions



MOTOR TYPE		Power (kW)	Nominal torque (Nm)	Nominal speed (rpm)	Maximum speed (rpm)	Nominal current (A)	Inertia (Kg/m²)
MAC-QW-225-	S	39-110	725	521-1663	4000	79-213	0,940
	M	40-159	1000	382-1744		82-306	1,225
	L	41-200	1300	302-1824		85-372	1,506
	P	43-217	1600	260-1483		87-403	1,788
MAC-QW-250-	S	82-195	1260	624-1625	4000	160-372	1,880
	M	85-273	1680	484-1723		166-497	2,310
	L	84-331	2200	364-1686		168-621	2,653
	P	83-373	2400	324-1576		172-691	3,080
MAC-QW-280-	S	101-289	1900	508-1749	4000	195-548	2,900
	M	106-370	2500	407-1609		209-686	3,560
	L	105-449	3060	328-1549		208-825	4,230
	P	109-540	3650	287-1589		213-994	4,910
MAC-QW-315-	S	129-376	2575	481-1893	3500	251-752	5,390
	M	135-488	3400	380-1793		262-967	6,622
	L	133-624	4100	312-1893		270-1211	7,845
	P	131-675	4800	261-1612		267-1287	9,067

Customized solutions



Full motor customization

- Customized shaft and flanges dimensions
- Terminal box, cable glands and flying leads
- Anti-condensation heaters (ACH)
- Thermal and feedback sensors
- Brakes
- Fasteners material (stainless steel, anodized...)
- Specific painting system
- Liquid-cooled rotor assembly
- Torque flange provision
- Manufactured according to the standards of the applicable classification society (DNV, BV, LRS...)

Main industry sectors for MAC QW motors



Converting and printing machines



Testing systems



Marine



Plastic and rubber processing & recycling systems

Innovative software tools

Application calculation spreadsheets

Motor sizing program

Interactive motor datasheets

2D drawings and 3D models for all motors

Available at www.vascats.com



High dynamic electrical machines



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