

POWERTECH

FLUID AX

SERIES

LIQUID COOLED ASYNCHRONOUS MOTORS

RELIABILITY
HIGH EFFICIENCY
VERY GOOD TORQUE/WEIGHT RATIO
VERY LOW NOISE LEVEL
SUITABLE FOR VECTOR DRIVES
IGBT COMPLIANT
WIDE RANGE OF CUSTOMIZATION AND
OPTIONS

IP PROTECTION **IP54 or IP55**
COOLING METHOD **LIQUID**

TYPICAL APPLICATIONS

TUNNEL BORING MACHINES
FOOD BOXES EXTRUDERS
WINDERS AND UNWINDERS
LIFTING AND HANDLING SYSTEMS
PLASTIC AND RUBBER EXTRUDERS
PAPER AND CARDBOARD PRODUCTION
MACHINERY
PROCESSING AND CUTTING METAL PLATES
METAL WIRE PROCESSING MACHINERY
PACKAGING MACHINERY
MACHINE TOOLS
PRINTING MACHINERY
TEXTILE MACHINERY
COMPRESSORS
TRACTION CONTROL



TECHNICAL SPECIFICATIONS

IP PROTECTION	IP54 (IP55 on request)
THERMAL PROTECTION	KLIXON (PT100, PTC on request)
SHAFT EXTENSION	FITTED KEY (PLAIN SHAFT on request)
BALANCING	FULL KEY (HALF KEY on request)
VIBRATION GRADE	A (B on request)
INSULATION CLASS	F
COOLING METHOD	Liquid 20°C (68°F) + GLYCOL 20% Flow rate by size
AMBIENT CONDITIONS	0 ÷ 40°C (32 ÷ 104°F) 1000m ASL
TRANSDUCER	ENCODER OR RESOLVER (on request)
MOUNTING FORM	B3, B5, B35 by request
PAINTING	NITRO, POLYURETHANIC, on request

STANDARD WINDINGS DATA

TYPE	FLOW RATE	SHAFT HEIGHT	RATED POWER RANGE	RATED TORQUE RANGE	RATED SPEED RANGE	MAX MECH. SPEED *
FLUID AX	L/1'	mm	kW	Nm	rpm	rpm
100C	5 ÷ 16	108	3 ÷ 41	31 ÷ 135	1000 ÷ 2000	9000 ÷ 10000 ¹
132C	10 ÷ 32	140	13 ÷ 110	110 ÷ 395	1000 ÷ 2000	6500 ÷ 9000 ¹
160K	18 ÷ 30	160	32 ÷ 150	250 ÷ 550	1000 ÷ 2000	5000 ÷ 7000 ¹
200K	22 ÷ 38	205	64 ÷ 237	450 ÷ 1100	1000 ÷ 2000	4000 ÷ 5500 ²
250K	26 ÷ 70	255	130 ÷ 585	960 ÷ 2850	1000 ÷ 2000	3500 ÷ 5000 ²
250KC	27 ÷ 70	255	138 ÷ 620	1000 ÷ 3000	1000 ÷ 2000	3500
315CA	34 ÷ 70	320	125 ÷ 746	1800 ÷ 4300	500 ÷ 2000	3200 ÷ 4500 ²
315C	34 ÷ 85	320	135 ÷ 933	1900 ÷ 5700	500 ÷ 2000	3200

¹ S4 Version (Power derating -5%)

² S6 Version (Power derating -5%)

* The max. mechanical speed have to be defined after evaluation of customer's requirements, incl. the mechanical features of his plant and the applied accessories.