

POWERTECH

TORQUE  
MOTORS

ST  
SERIES

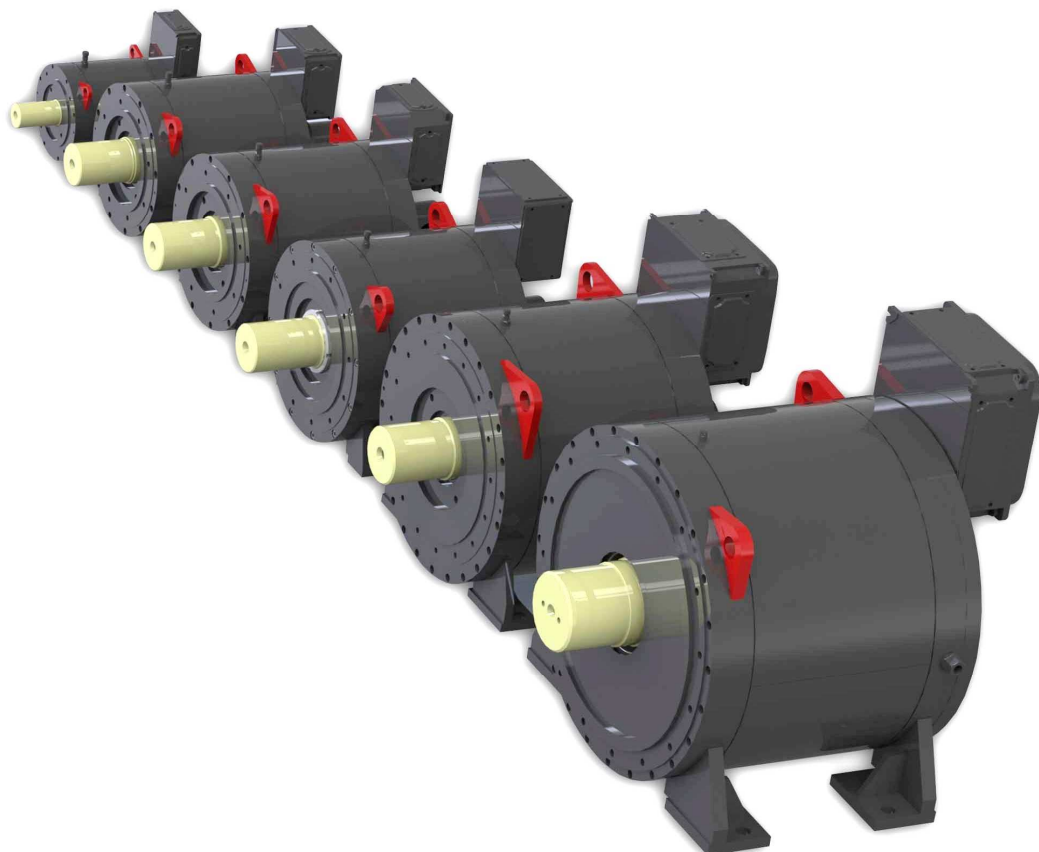
SYNCHRONOUS PERMANENT MAGNETS TORQUE MOTORS

RELIABILITY  
VERY HIGH TORQUE  
EXCELLENT TORQUE/WEIGHT RATIO  
VERY HIGH EFFICIENCY AT LOW SPEED  
HIGH POLARITY (up to 44 poles) FOR EASY  
CONTROL AT LOW SPEED  
SUITABLE FOR VECTOR DRIVES  
IGBT COMPLIANT  
WIDE RANGE OF CUSTOMIZATION AND  
OPTIONS

TYPICAL APPLICATIONS

PRESSES  
ENERGY RECOVERY SYSTEMS  
FOOD BOXES EXTRUDERS  
PAPER AND CARDBOARD PRODUCTION  
MACHINERY  
PROCESSING AND CUTTING METAL PLATES  
METAL WIRE PROCESSING MACHINERY  
PLASTIC AND RUBBER EXTRUDERS  
LIFTING AND HANDLING SYSTEMS  
PACKAGING MACHINERY  
PRINTING MACHINERY  
TRACTION CONTROL  
MACHINE TOOLS  
COMPRESSORS

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



## TECHNICAL SPECIFICATIONS

IP PROTECTION	IP54 (IP55 on request)
THERMAL PROTECTION	PT100 (and other 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, C5M, on request

## STANDARD WINDINGS DATA

TYPE	Poles 2p=	Max. torque at 400V Nm	RATED POWER RANGE kW	RATED TORQUE RANGE Nm	RATED SPEED RANGE rpm	Max. suggested speed at const. Power 400V rpm
ST22 FLUID 13	22	up to 1295	6,1 - 30	292 - 730	200 - 400	up to 700
ST22 FLUID 16	22	up to 2515	13,1 - 62,2	595 - 1530	200 - 400	up to 700
ST30 FLUID 20	30	up to 6030	13 - 94	1200 - 3100	100 - 300	up to 500
ST30 FLUID 25	30	up to 9410	21,6 - 131	2000 - 5150	100 - 250	up to 450
ST44 FLUID 31	44	up to 17730	49,6 - 225	4600 - 8850	100 - 250	up to 400
ST44 FLUID 40	44	up to 31450	100 - 419	11650 - 20400	80 - 200	up to 350

All data outputs are referred to power converter clocking frequency (PWM) >4kHz

NOT COOLED VERSION IC410 on demand (POWER DERATING -55% ~ than ST FLUID SERIES)