



# Options Accessories



- **Single-phase and three-phase servo-ventilation IC416**
- Insulation class **H**
- **IP56, IP65, IP66** protection degrees
- Thermal protections with standard temperature in class F and available also for class H:
  - 3 **PTC** thermistors with temperature class suitable for the insulation class
  - 3 **bimetallic** temperature probes with temperature class suitable for the insulation class
- **Optional voltages**
- **Design B34, B35**
- **Fast connection**
- **Rain cover**
- **Textile cover**
- **Aluminium fan**



Other options and accessories	TS-TH	TBS-TBH	D	DB	S	HSE	TSX-THX	TBSX-TBHx
- Servo-ventilation single-phase and three-phase IC416	•	•	•	•	•	•	/	/
- Single-phase and three-phase servo-ventilation IC416 with anti-corrosion paint	/	/	/	/	/	/	•	•
- Not ventilated (IC410 or IC418)	•	•	•	•	•	•	•	•
- S2 service-10 min without ventilation	•	•	•	•	•	•	•	•

- Insulation class H	•	•	•	•	/	/	•	•
- Degree of protection IP55	/	•	/	•	/	/	/	/
- Degree of protection IP56, IP65, IP66	•	•	•	/	/	/	• (only IP66)	• (only IP66)
- Terminal cover with degree of protection IP67	/	/	/	/	/	/	•	•
- 3 PTC thermistors with temperature class suitable for the insulation class	•	•	/	/	/	/	•	•
- 3 bimetal temperature probes with temperature class suitable for the insulation class	•	•	•	•	•	•	•	•
- Optional voltages	•	•			•	•	/	/
- Design B34, B35	•	•	•	•	•	•	/	/
- Second shaft	•	•	•	•	•	•	/	/
- Rear hexagon	•	•	•	•	•	•	/	/
- Anti-condensation heaters 110V or 230V	•	•	•	•	•	•	•	•
- Condensate drain holes	•	•	•	•	•	•	•	•
- Incremental encoder and low-resolution incremental encoder	•	•	/	/	/	/	/	/
- MS brake	/	•	/	•	/	/	/	/
- ML brake	/	•	/	/	/	/	/	/
- FM-FM brake	/	•	/	/	/	/	/	/
<b>Other accessories</b>	/	/	/	/	/	/	/	/
- Backstop device	•	•	/	/	/	/	/	/
- Cable glands and metal/metal plugs	•	•	•	•	•	•	•	•
- Aluminium fan	•	•	•	•	•	•	•	•
- Fast connection	•	•	/	/	/	/	/	/
- Rain cover and textile cover	•	•	/	/	/	/	•	•
- Fly-wheel (only for self-braking motors)	/	•	/	•	/	/	/	•
- Release lever (only for self-braking motors)	/	•	/	•	/	/	/	•
- Micro switch to open/close brake or for brake wear (only for self-braking motors)	/	•	/	/	/	/	/	•
- Anti-lock braking system stainless steel ring (only for self-braking motors)	/	•	/	/	/	/	/	/
- Optional straightening(only for self-braking motors)	/	•	/	•	/	/	/	•
- Sealed bearings 2RS	/	/	/	/	/	/	•	•
- Painted Blue RAL 5010	•	•	•	•	•	•	/	/
- Painted Grey RAL 9006	/	/	/	/	/	/	•	•
- Painted White RAL 9010	/	/	/	/	/	/	•	•
<b>Other options</b>	/	/	/	/	/	/	/	/
- Atex certification	•	•	•	•	•	•	/	/
- UL/CSA certification	•	•	•	•	/	/	•	•
- Gost certification	•	•	/	/	/	/	•	•
- Special design for low temperatures	•	•	•	•	•	•	•	•
- Special design for high temperatures	•	•	•	•	•	•	•	•

• Available  
/ Not available



# Electrical Motors for aggressive environments

They are the most effective answer to needs of alternating current transmission in particularly aggressive environments. The three-phase motors are available, in accordance with the IEC international standards, from size 063 to 112 in the versions with flange B5, B14. They are available 4 poles electric motors with IE2 efficiency starting from size 080 and with FM brake in the case of self-braking motor.

## TSX-THX



## TBSX-TBHX



## Characteristics

- MTV electric motor, three-phase 4 poles, sizes 063 ÷ 112
- B5 - B14 mounting position with corresponding vertical positions
- S1 duty
- **Aluminum nameplate**
- Screws AISI 316
- **Tie rods AISI 316**
- Shielded 2RS bearings
- **Protection rating IP56**
- Insulation Class F
- Cooling system IC411
- Motor fan suitable for aggressive environments
- Standard ambient conditions
- Available TSBX/TBHX Brake Motors Series for aggressive environments

## Options/Accessories

- Motor in S2 limited duration duty without fan/fan cover and drive end shaft (real shield closed)
- Protection rating IP66
- Insulation Class H
- Low temperatures and high temperatures design options
- Anti condensation heaters, condensation draining holes
- Thermal cutouts and Thermistors F / H class
- Optional painting blue RAL 5010 or grey RAL 9006 or white RAL 9010
- Rain cover roof painted according to the motor
- UL and GOST Certifications