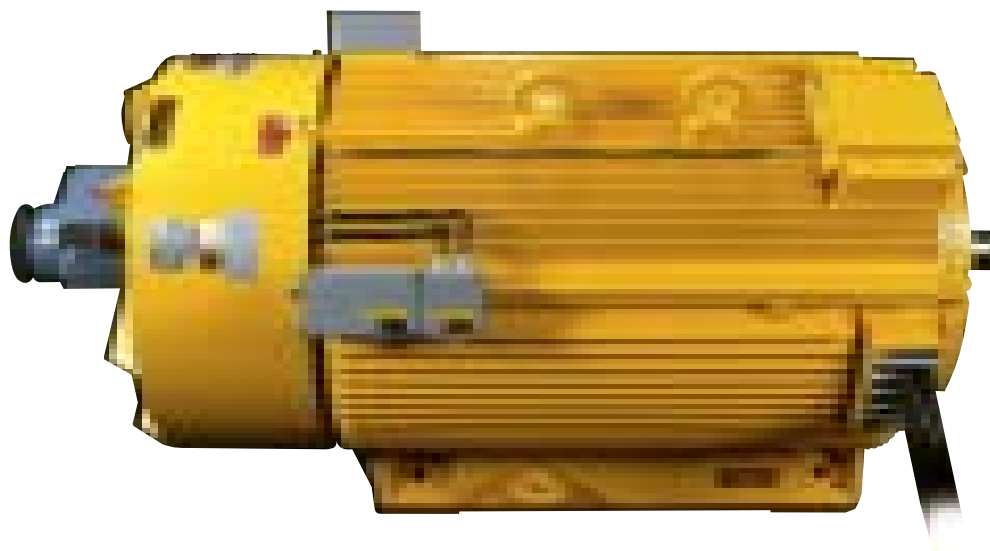


Cast iron motor, HXR - For drilling applications



Why a special motor for drilling applications?

- For demanding offshore and land-based oil and gas drilling plant applications
- For mud pumps, draw works and top drive
- For hazardous areas, increased safety - EEx e

What are the main features?

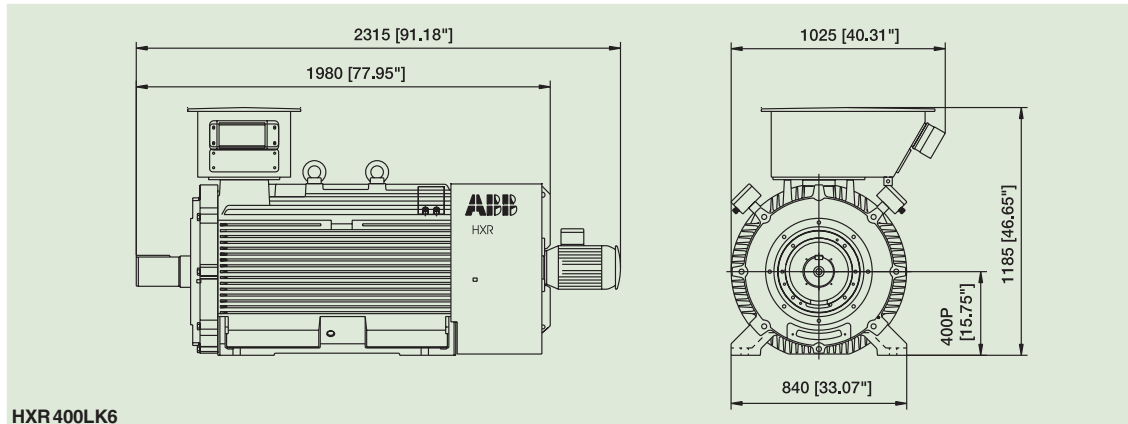
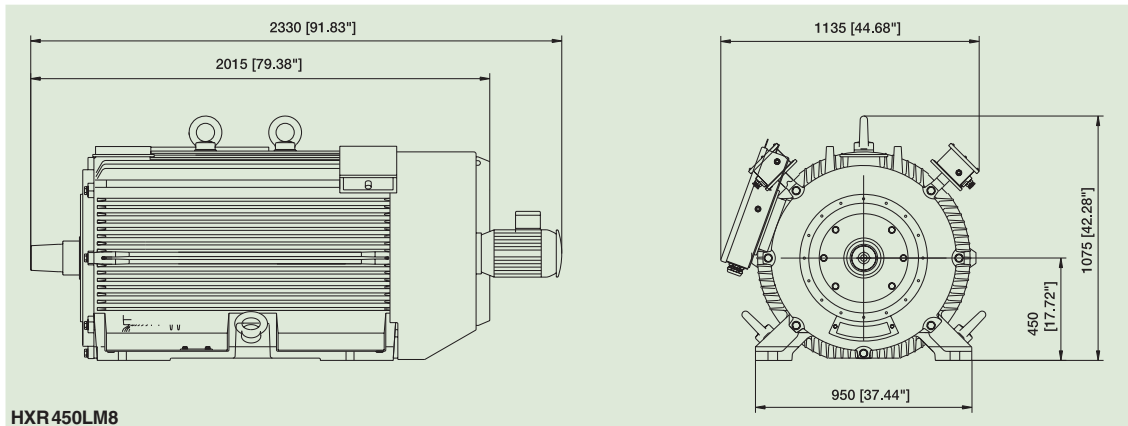
- Squirrel cage induction motor
- Adjustable - wide speed range
- Totally enclosed, IP 56
- Rib-cooled
- Tested and certified for EEx e protection
- Flexible customer support
- Corrosion protection according to offshore requirements
- Wide range of auxiliary equipment available

What are the main advantages?

- High reliability
- Cost effective drive package
- Continuous torque with zero speed
- Low maintenance costs
- High efficiency - low noise
- Four quadrant operation

What does the standard technology include?

- Rugged cast iron ribbed frame
- Totally enclosed fan-cooled construction
- IEC-frame sizes: up to 560 L
- Output up to 2250 kW / 3000 HP
- Form wound copper stator winding
- Vacuum pressure impregnation (VPI)
- Classified for hazardous locations
- DOL or Frequency converter supply



Technical data

Motor type	HXR 450LM8
Motor design	Increased safety, EEx e
Degree of protection	Totally enclosed, IP 56
Mounting designation	Horizontal, Vertical
Method of cooling	Fan-cooled, IC 416
Insulation	Class F
Standards	IEC, EN, ATEX, NEMA
Duty type	Continuous, S1
Voltage	690 V, converter supply
Rated output	820 kW, 1100 HP
Rated current	890 A
Rated torque	8235 Nm, 6074 lbf-ft
Speed at FWP	951 rpm
Power factor	0.79
Efficiency	96.4%
Weight	5 200 kg, 11 500 lbs

Short time overload capability up to 160%

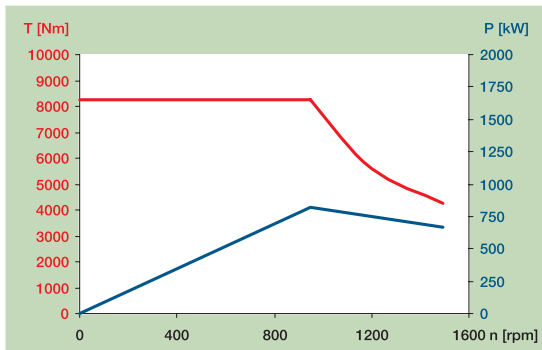
Technical data

Motor type	HXR 400LK6
Motor design	Increased safety, EEx e
Degree of protection	Totally enclosed, IP 56
Mounting designation	Horizontal, Vertical
Method of cooling	Fan-cooled, IC 416
Insulation	Class F
Standards	IEC, EN, ATEX, NEMA
Duty type	Continuous, S1
Voltage	690 V, converter supply
Rated output	589 kW, 790 HP
Rated current	685 A
Rated torque	5650 Nm, 4170 lbf-ft
Speed at FWP	995 rpm
Power factor	0.78
Efficiency	96.3%
Weight	3 900 kg, 8 600 lbs

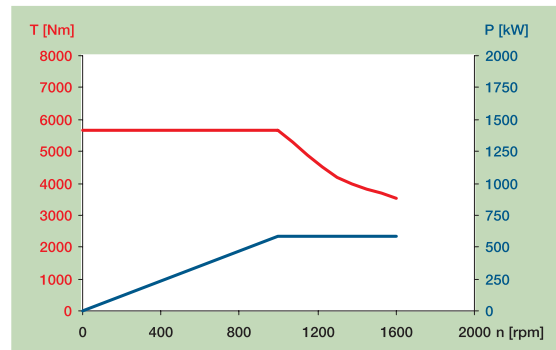
Short time overload capability up to 150%



ABB Oy
 Electrical Machines
 PO Box 186
 FIN-00381 Helsinki, Finland
 Tel: +358 10 22 11
 Fax: +358 10 222 2427
www.abb.com/motors&drives



HXR 450LM8: Torque and Output Power versus Speed, Continuous duty (S1).



HXR 400LK6: Torque and Output Power versus Speed, Continuous duty (S1).