



**AC Three-phase Motors - IE4/IE3/IE2/IE1**

**PREMIUM EFFICIENCY MOTORS - IE3/CURUS**

- IE3 Premium Efficiency compliant since 2010
- Total reliability and longevity in a well-engineered package
- Enhanced designs to meet today's challenges and market needs



## TECHNICAL DATA

**Motor Type**

AMPH 160M ZA2 - 15 kW - 2 poles - 460V - 60Hz

## PERFORMANCE DATA

<b>Type</b>	AMPH 160M ZA
<b>Poles</b>	2
<b>kW</b>	15
<b>HP</b>	20
<b>rpm</b>	3555
<b>Mn Nm</b>	40.3
$\eta$ 50%	90.1
$\eta$ 75%	92.0
$\eta$ 100%	91.0
<b>cos Phi</b>	0.88
<b>I<sub>N</sub></b>	23.4
<b>I<sub>A</sub>/I<sub>N</sub></b>	10.0
<b>M<sub>A</sub>/M<sub>N</sub></b>	3.5
<b>M<sub>S</sub>/M<sub>N</sub></b>	3.1

<b>M<sub>K</sub>/M<sub>N</sub></b>	4.5
<b>J 10<sup>-3</sup> kgm<sup>2</sup></b>	53.4
<b>kg</b>	92

## Mechanical Data

<b>Design</b>	Aluminium
<b>Degree of protection</b>	IP 55
<b>Bearings DE/NDE</b>	6309/2Z
<b>Lubrication grease</b>	low & high temperature grease
<b>Regreasing device horizontal</b>	permanent lubrication
<b>Regreasing device vertical</b>	permanent lubrication
<b>Grease Quantity</b>	-
<b>Cooling</b>	IC 411
<b>Vibration Level</b>	A (normal)
<b>Noise Lpa db(A)</b>	74

## Electrical Data

<b>Voltage</b>	460V - 60Hz
<b>Connection</b>	YY/Y 230/460V - ? 460V
<b>Duty type</b>	S1
<b>Thermal protection</b>	na
<b>Insulation class</b>	F
<b>Direction of rotation</b>	bidirectional
<b>Ambient temperature</b>	-20°C / +40 °C
<b>Altitude</b>	1000 m.a.s.l.