PRODUCT INFORMATION PACKET



Model No: 182THES8048
Catalog No: Y980
Blue Max® Hazardous Duty® Explosion Proof Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182TC Frame, EPNV



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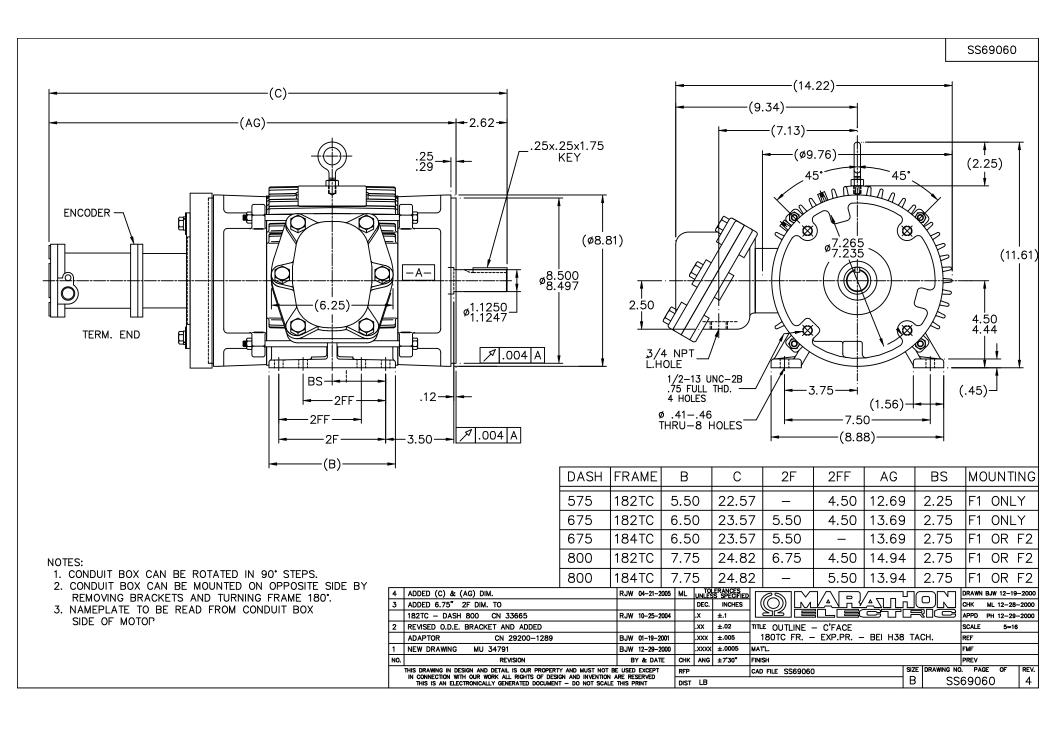
Nameplate Specifications

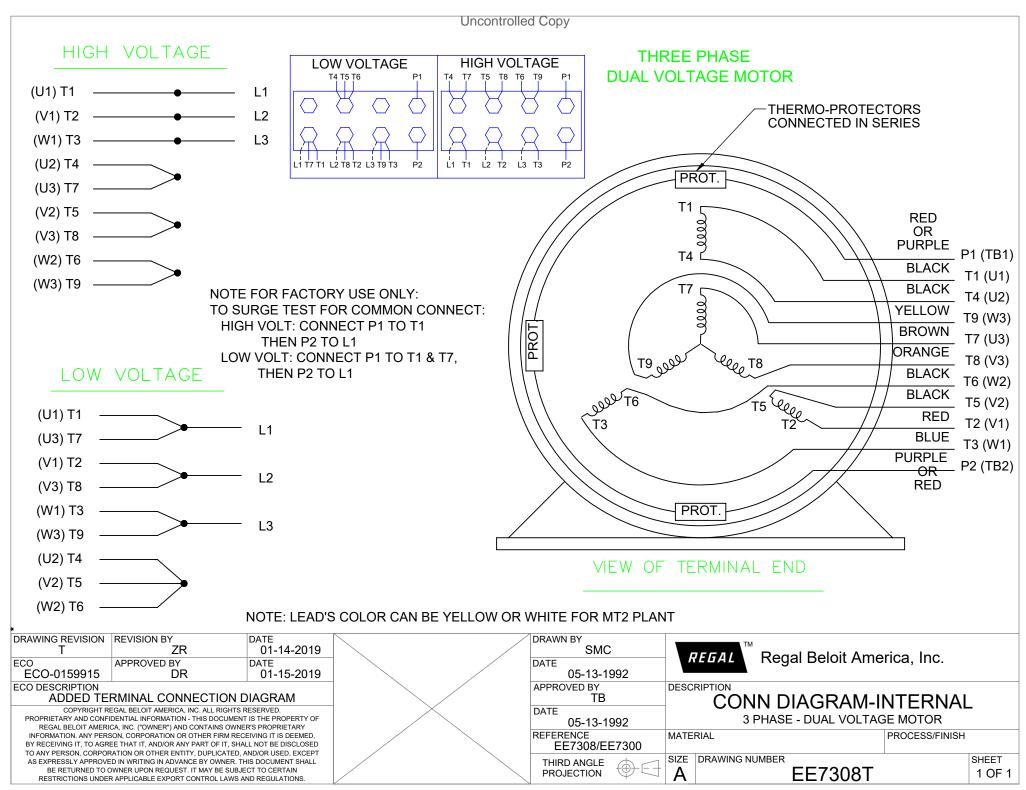
3 Hp	Output KW	2.2 kW
60 Hz	Voltage	230/460 V
8.2/4.1 A	Speed	1742 rpm
1	Phase	3
86.5 %	Power Factor	81
Continuous	Insulation Class	F
INV	KVA Code	L
182TC	Enclosure	Explosion Proof Non Ventilated
Thermostat	Ambient Temperature	40 °C
6207	Opp Drive End Bearing Size	6206
UL Listed And CSA Certified	CSA	Υ
N	IP Code	54
DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	Number of Speeds	1
	60 Hz 8.2/4.1 A 1 86.5 % Continuous INV 182TC Thermostat 6207 UL Listed And CSA Certified N DIV 1 EXP PROOF CL I GR CD CL II GR	60 Hz Voltage 8.2/4.1 A Speed 1 Phase 86.5 % Power Factor Continuous Insulation Class INV KVA Code 182TC Enclosure Thermostat Ambient Temperature 6207 Opp Drive End Bearing Size UL Listed And CSA Certified CSA N IP Code DIV 1 EXP PROOF CL I GR CD CL II GR

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	4.9 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	24.82 in
Frame Length	8.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS69060-800	Connection Drawing	A-EE7308T

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CERTIFICATION DATA SHEET

182THES8048 BR WINDING#: K1824103 R2 2 Model#: F1/F2 CAPABLE CONN. DIAGRAM: A-EE7308T ASSEMBLY:

OUTLINE: B-SS69060-800

TYPICAL MOTOR PERFORMANCE DATA

НР	KW		SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA	CODE	DESIGN
3	2.24	ı .		1800	1742	182TC	EPN	V		L	INV
PH	Hz	VOL	_TS	FL AMPS	START TYPE	DUTY	INSL	S.I	F	AMB°C	ELEVATION
3	60	230/	460	8.2/4.1	INVERTER ONLY	CONTINUOU	F3	1.0	0	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 86.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81	3/4 LOAD PF: 75	1/2 LOAD PF: 63	81.5	SQ CAGE INV DUTY	4/2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	73 / 36.5	27 LB-FT 300	35 LB-FT 388	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR
62 dBA	72 dBA	0.4 LB-FT^2	- LB-FT^2	- SEC.	-	90 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
3.24478	2.25148	5.49626	6.5747	152.306
RM	ZREF	XR	TD	TD0
5411.12	94.6	1.4	0.0069	0.185

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	FALSE	EXP PROOF CL I GR C&D CL II	FALSE	NONE	BLUE (ENAMEL)
					GR F&G T3C			

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	Т	NONE	NONE	1144	CAST IRON
6207	6206					STRESSPROOF	
0207	0200					(C-223)	

	THERMO-PF	ROTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS	PROTECTORS WDG RTDs		BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED

ENCODER: REGAL SUPPLIED - REGAL MOUNT

BEI H38

NPS HOLE 1024 PPR

BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

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