

ABB BALDOR RELIANCE III

Customer information packet

EM2559T-4

125HP, 1775RPM, 3PH, 60HZ, 405T, 4488M, OPSB, F

Specifications

Enclosure	OPSB
Frame	405T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	143.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	143.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	AB
Type	AC
Mech. spec.	44E195
Base	
Status	PRD/A
Elec. spec.	44WGW047
Layout	44LYE195
Eff. date	05-14-2026
CD Diagram	CD0382
Poles	04
Leads	6#4 Y
Proprietary	False
Created date	08-06-2009

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.47 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138LUA															
CAT.NO.	EM2559T-4				P/N						ENCLOSURE			OPSB	
SPEC.	44E195W047			CC	010A		FRAME		405T		S/N				
HP	125				CLASS		F		HZ		60				
RPM	1775				PH		3		DES		B				
VOLT	460				KVA-CODE				G		ODE BRG		6312	DE BRG	6316
AMP	143														
RATING	40C AMB-CONT				GREASE				POLYREX EM						
NEMA-NOM-EFF	95.4	PF	86	SER.F.		1.15									
	50HZ 100HP 380V 138A SF 1.0														
HTR-VOLTS	HTR-AMPS														

Parts List

Part number	Description	Quantity
SA184568	SA 44E195W047	1.000 ea
RA172401	RA 44E195W047	1.000 ea
HA6731	LIFTING LUG FOR 44 FRAME MOTORS.	2.000 ea
HA6648A01	CAST ADAPTER, 44 FRAME - NEMA 404-5 - MA	1.000 ea
19XW3816A12	.38-16 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	2.000 ea
18CB1006A04	CB 318 3.62 LD HOLE, .38 MTG HOLE & 3.88	1.000 ea
19XW3118A16	.31-18 HEX WASHER HEAD TAPTITE II 1.00 L	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
44EP1203A02	FREP, MACH	1.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
10XN3118K08	5/16-18 X .50 GRADE #5, STL, ZINC PLATE	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 ea
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 ea
10XN3816K48	3/8-16 X 3 HEX HD CAP SCREW,Z/P	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
44EP1202A01	PU ENDPLATE, MACH.	1.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
18CB1506A01	CB LID 318 FOR 18CB1006	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HW2501K66	KEY, 3/4 SQ X 5.625	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
44AD2003A01	BAFFLE PLATE 44 OPSB, "X" = -.470, "Y" =	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
44AD2003A01	BAFFLE PLATE 44 OPSB, "X" = -.470, "Y" =	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea

HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA3175A03	THRUBOLT STUD 1/2-13 X 24.250 - GRADE 2	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.125 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0382	CONNECTION LABEL	1.000 ea
NP2138LUA	ALUM SUPER-E UL PREM CC (300SER)	1.000 ea
44PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea

Accessories

Part number	Description	Multiplier
44-1402	C FACE KIT 44/404-5UC TC 6316 BRG	A8

AC Induction Motor Performance Data

Record # 13893

Typical performance - not guaranteed values

Winding: 44WGW047-R001			Type: 4488M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		125	Full Load Torque		369 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		143	Breakdown Torque		1004 LB-FT	
R.P.M.		1775	Pull-up Torque		454 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		540 LB-FT
NEMA Design Code		B	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		46 A	
NEMA Nom. Eff.		95.4	Power Factor	86	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps				Temp. Rise @ S.F. Load		64°C
				Locked-rotor Power Factor		25.5
				Rotor inertia		16.6 lb-ft²

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	84	86	87	86	87
Efficiency	93.5	95.5	95.7	95.4	94.9	94.1	95.1
Speed	1794	1789	1783	1777	1770	1762	1773
Line amperes	56.3	79.8	109.4	142.6	177.7	216	163.7

ABB Motors and Mechanical Inc.

WINDING # 44WG047

Typical performance - not guaranteed values.

125 HP 3 PH 60 HZ 1775 RPM 460 V 4488M

TORQUES (LB-FT): PO=1004 PU=454 LR=540 LRA=914





