

BALDOR® • RELIANCE

Product Information Packet

EM2531T-CI

25HP,1770RPM,3PH,60HZ,284T,1046M,OPEN,F1

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1046M	Elec. Spec:	10WGY677	CD Diagram:	CD0005
Enclosure:	OPEN	Mfg Plant:		Mech. Spec:	10B01	Layout:	10LYB001
Frame:	284T	Mounting:	F1	Poles:	04	Created Date:	03-02-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	09-06-2016
Leads:	9#10					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3554L

CAT.NO.	EM2531T-CI		P/N			ENCLOSURE	OPEN
SPEC.	10B001Y677G1	CC	010A	FRAME	284T	S/N	
HP	25		CLASS	F	HZ	60	
RPM	1770		PH	3	DES	A	
VOLT	230/460		KVA-CODE	G		ODE BRG	6309
AMP	62/31		USABLE AT 208V	64		DE BRG	6310
RATING	40C AMB-CONT		NEMA-NOM-EFF	93.6		GREASE	POLYREX EM
PF	83	SER.F.	1.15	VPWM INVERTER READY			
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.			

Parts List		
Part Number	Description	Quantity
SA191597	SA 10B001Y677G1	1.000 EA
RA179255	RA 10B001Y677G1	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
10CB3000SP	STD KO BOX MODEL 310,312,314 MTRS W/2.00	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	1.000 EA
10EP1200A04	ENDPLATE, MACH	1.000 EA
HW1001A10	WASHER, #10 SPLT LK, ZN X	3.000 EA
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW1001A10	WASHER, #10 SPLT LK, ZN X	3.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
10EP1200A03	ENDPLATE, MACH PU	1.000 EA
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
10AD2000A02	AIR DEFLECTOR, STAT	1.000 EA
10AD2000A02	AIR DEFLECTOR, STAT	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.125 GA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.130 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
12XN1032A08	10-32X1/2 HEX HD SLTD	3.000 EA
12XN1032A08	10-32X1/2 HEX HD SLTD	3.000 EA
LC0005E02	SPL CONN.DIA./WARN.LABEL(LC0005/LB1119)	1.000 EA
NP3554L	SS SUPER-E UL CSA-EEV PREM CC	1.000 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA

AC Induction Motor Performance Data

Record # 33226 - Typical performance - not guaranteed values

Winding: 10WGY677-R001	Type: 1046M	Enclosure: OPEN
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	25			Full Load Torque	74.4 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	62/31			Breakdown Torque	224 LB-FT
R.P.M.	1770			Pull-up Torque	99.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	122 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	189 A
Service Factor (S.F.)	1.15			No-load Current	13.4 A
NEMA Nom. Eff.	93.6	Power Factor	83	Line-line Res. @ 25°C	0.31051 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	32°C
S.F. Amps				Temp. Rise @ S.F. Load	38°C
				Locked-rotor Power Factor	32.6
				Rotor inertia	3.66 LB-FT ²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	81	84	84	83
Efficiency	88.2	92.6	93.6	93.6	93.3	92.5	93.4
Speed	1794	1788.5	1782.2	1775.6	1768.9	1760.9	1772
Line amperes	15.2	19.2	24.6	31	37.4	45.3	34.8

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values





