

BALDOR® • RELIANCE

Product Information Packet

M22452-58

45KW,2950RPM,3PH,50HZ,D225S,1458M,TEFC,B

Part Detail							
Revision:	D	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	1458M	Elec. Spec:	14WGX770	CD Diagram:	CD0382
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	14E789	Layout:	14LYE789
Frame:	D225S	Mounting:	B3	Poles:	02	Created Date:	05-03-2007
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-23-2012
Leads:	6#8					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1954L							
CAT NO							
SPEC.	14E789X770G1						
SER.NO							
FRAME	D225S	MTG	B3	I.P.	55		
ENCL	TEFC	WEIGHT		CL	F		
DE BRG	6313	ODE	6312				
RATING	40C AMB-CONT						
BLANK							
R/MIN	2950	RPM	3560				
KW	45	VOLTS DELTA	400	HP	60	460	
DESIGN	N	A	79-74	P.F.	92	A	65
	380-415	94.5					
EFF.	94.1	DESIGN	B	CODE	H		
COS	0.92	SER. F.	1.00	CC	010A		

Parts List		
Part Number	Description	Quantity
SA161922	SA 14E789X770G1	1.000 EA
RA150469	RA 14E789X770G1	1.000 EA
10CB1000A193	CONDUIT BOX, MACH W/2 M50 X 1.5 TAP HLS	1.000 EA
14GS1000SP	GASKET, CONDUIT BOX	1.000 EA
10YN0100K025	BOLT, 10MX1.5X25M HHCS 10.9-YZ	4.000 EA
HW1021A10	WASHER DIAMETER = M10, SPRING STEEL,	4.000 EA
WD1201A01	TERM. STRIP KL 16/12/PA DS ELECTROVERT	1.000 EA
84YN0030J012	SCREW SOCKET HD M3 X 12MM LG	2.000 EA
HA6357A03	CONNECTOR MTG. BRACKET, VECTOR DRIVES	1.000 EA
19YW0040A012	SCREW, TAPTITE, ZN, M4 X 12MM LONG,	2.000 EA
HW1001A08	WASHER, #8 SPLT LK, ZN	2.000 EA
10YN0060K012	BOLT, M6X12 HHCS 8.8 ZINC1 W/ CR3	1.000 EA
WD1000B25	BURNDY TERMINAL L125HP	1.000 EA
14EP1102A109	FR ENDPLATE, 364-365 312 BRG METRIC-E	1.000 EA
10YN0120K065	M12-1.75 X 65MM HEX HD SCR, GRADE 5	6.000 EA
HA1005A08SP	314-34 NEOPRENE SLINGER	1.000 EA
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 EA
10YN0080K050	BOLT, M8X1.25X50MM HHCS ZINC, GRADE 5	2.000 EA
10YN0100K075	BOLT, M10X1.5X75MM HHCS GRADE 5	4.000 EA
14EP1703A13	PU ENDPLATE, 364-5T TEFC	1.000 EA
10YN0120K065	M12-1.75 X 65MM HEX HD SCR, GRADE 5	6.000 EA
HW4600B42	V-RING SLINGER 2.375 X 3.070 X 0.280	1.000 EA
14FH1002A01	FAN HSG CAST	1.000 EA
10YN0100K060	M10-1.5 X 60MM HEX HD SCR, GRADE 5	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW1021A10	WASHER DIAMETER = M10, SPRING STEEL,	3.000 EA
10CB1500A01SP	CONDUIT BOX LID, MACH	1.000 EA
14GS1001	GASKET, CONDUIT BOX LID 314 FRAME	1.000 EA
10YN0060K019	M6-1 X 19MM LONG HEX HD, GRADE 5	4.000 EA
HW2511E111	16MM X 10MM X 100MM KEY W/ROUND ENDS,DI	1.000 EA
MJ5001A01	46-665 RED SEALER	0.031 QT
MJ5001A14	DYNAPRO SEAL, CP MOTORS VC#2508050 (603	0.033 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB5040	INSTRUCT TAG, REPL W/MN416 OR MN416A01	1.000 EA
WD5005A06	TERM BLK KIT W/WD1320A02 ELEC AMPS 0-63	1.000 EA
HA6370A03	ADAPTER - WECO TERMINAL BOARD 309-318	1.000 EA
WD1000B12	T&B D71, RING TERM, 8AWG, .25 STUD	6.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A08	.125X3.50 GREASER EXTEN.	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.220 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
09FN3001B04	EXTERNAL FAN, PLASTIC	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MG1025G05	MEDIUM CHARCOAL METALLIC GREY	0.140 GA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	4.000 EA
LC0762	CONN LABEL, AC	1.000 EA
NP1954L	METRIC, ALUM, UL CSA CE, EFF, CD0382,	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 22719 - Typical performance - not guaranteed values

Winding: 14WGX770-R003	Type: 1458M	Enclosure: TEFC
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Nameplate Data				415 V, 50 Hz: Single Voltage Motor	
Rated Output (KW)	45			Full Load Torque	106 LB-FT
Volts	380-415			Start Configuration	direct on line
Full Load Amps	79-74			Breakdown Torque	349 LB-FT
R.P.M.	2950			Pull-up Torque	142 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	180 LB-FT
NEMA Design Code	N	KVA Code	H	Starting Current	580 A
Service Factor (S.F.)	1			No-load Current	21.2 A
NEMA Nom. Eff.	94.1	Power Factor	92	Line-line Res. @ 25°C	0.0838 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
				Rotor inertia	7.58 LF ²

Load Characteristics 415 V, 50 Hz, 45 KW

% of Rated Load	25	50	75	100	125	150
Power Factor	63	81	87	89	89	89
Efficiency	88.8	92.9	94	93.7	94.6	93.6
Speed	2991	2983	2973	2964	2954	2942
Line amperes	28.3	41.8	57.4	74.3	92.7	112

Performance Graph at 415V, 50Hz, 45.0KW Typical performance - Not guaranteed values





