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BALDOR • RELIANCE

Product Information Packet

EM50502S-4

500HP,3576RPM,3PH,60HZ,5010,A50184M,TEFC

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Part Detail							
Revision:	E	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	A50184M	**Elec. Spec:**	A50WG8602	**CD Diagram:**	416820-025
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**		**Layout:**	616159-806
Frame:	5010	**Mounting:**	F1	**Poles:**	02	**Created Date:**	02-09-2016
Base:		**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	08-11-2016
Leads:	3#4/0 (02 per group) 4824-6-FB					**Replaced By:**	
Literature:		**Elec. Diagram:**					

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Nameplate NP3131

ENERGY EFFICIENT			**SERIAL NO.**								
CATALOG NO.	EM50502S-4			**SPEC NO.**	KGPEM50502S-4A						
HP	500	**RPM**	3576	**FRAME**	5010	**HZ**	60	**SERVICE FACTOR**	1.15		
VOLTS	460	**F.L. AMPS**	536	**PHASE**	3	**TYPE**		**ENCL.**	TEFC		
F.L.EFF.	95.8	**F.L.P.F.**	91	**MOTOR WEIGHT**	5071	**INSUL.CLASS**	F				
DESIGN	-	**NEMA CODE**	G	**MAX AMBIENT**	40	**DUTY**	CONT				
	115	**C RISE/**	RES	**AT**		**HP**	575	**AMPS**	615		
D.E. BRG.	65BC03J40X			**O.D.E. BRG.**	65BC03J40X						
WDG. THERMAL	100 OHM PLATINUM	**QTY.**	6	**BRG. THERMAL**							
LUBE	POLYREX EM										
VOLTS	120/240	**AMPS**	2.4/1.46	**WATTS**	350/350	**QTY**	2				
CERTIFICATE OF COMP NO.	LR52580										
	CC010A										

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Parts List

Part Number	Description	Quantity
SA315032	SA KGPEM50502S-4A	1.000 EA
RA302528	RA KGPEM50502S-4A	1.000 EA
482406400FB	4/0 AWG,UL3374,BLACK,600V,BELDEN # 37140	42.000 FT
419512002A	ID TAG, ROLL LAC	0.002 RL
041009000GH	TERMINAL LUG	6.000 EA
041009029L	# 4/0 BUTT CONNECTOR	6.000 EA
001575000BA	N/P LAC	1.000 EA
000692000SC	N/P	5.000 EA
482406400FB	4/0 AWG,UL3374,BLACK,600V,BELDEN # 37140	12.000 FT
606800016D	RTD LAC	7.000 EA
069306003B	CABLE TIE 14 T&B L14509C	9.000 EA
482413004Y	#4 SLEEVING (GREEN) PER FT	12.000 FT
424731025P	HEATER LAC	2.000 EA
419512012SG	LABELS, HEAT SHRINK SET	1.000 EA
616156033A	INNER CAP ODE	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 EA
424231001A	SLT FLAT C'T'S'K' HDMS	1.000 EA
410700002J	WAVY WSHR,ODE CAP	1.000 EA
616156032A	INNER CAP DE	1.000 EA
034017013AB	LCKW 5/16 STD. PLATED	4.000 EA
035051013AA	BBLCW W-13 BLACK OXIDE	2.000 EA
616145011A	THERMAL BARRIER, LAC	1.000 EA
T-0346-8	HALF KEY BALANCE 004600044H	1.000 EA
415826011A	INSUL WSHR ODE CAP	1.000 EA

Parts List (continued)

Part Number	Description	Quantity
415915007C	GASK, LAC	1.000 EA
036150030NA	SKHD SSCR;STAT;BT-G508	2.000 EA
034690001AB	SQHDPLG, COND	2.000 EA
034692001AB	HCSPP 1/8" PLATED	2.000 EA
410700000DD	WAVY WASHER FAN-	1.000 EA
034141162AB	RETAINER RING,FAN	1.000 EA
419512012S	SHRINK MKR,	1.000 EA
034017013AB	LCKW 5/16 STD. PLATED	4.000 EA
807473001XBB	GRILL, GP - FAN COVER, G30/5000, ENGLISH	1.000 EA
807475026A	BRACKET FE GP	1.000 EA
033102013AB	NUT 5/16-18 PLATED	4.000 EA
034630002AJ	PP CPLG ODE	1.000 EA
032018036CK	HHCS 3/8-16X4-1/2 PLTD.	4.000 EA
035000001AB	ALFTG CAT.NO.1627-B PLTD	1.000 EA
807473044A	FAN COVER ODE	1.000 EA
034530058EB	PP NIPP ODE GRS DR	1.000 EA
034530082BB	PP NIP ODE GRS FL	1.000 EA
034630005AJ	PP CPLG ODE GRS DR	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
034000016AB	WSHR .531ID 1.062OD .095	4.000 EA
032130022HB	HXSCHCS BE BRKT- b/s 4/11/14	4.000 EA
035000001F	RELIEF FTG. G/DRN	1.000 EA
034600007AB	RED.BSHG.GRS/DRN	1.000 EA
032375004HB	SLRHMS 8-32X1/2 PLATED	2.000 EA

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415915001A	GASK, LAC	7.000 FT
482413004Y	#4 SLEEVING (GREEN) PER FT	30.000 FT
482415000A	GREASE (MOBIL POLYREX EM)	1.461 LB
034186023FA	KEY ODE FAN	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
034017013AB	LCKW 5/16 STD. PLATED	4.000 EA
049843019E	PLTE NNN 049843049WCA	1.000 EA
065774015A	TBRD 180-280	1.000 EA
075458000AF	CONDUIT BOX	1.000 EA
415917004A	N/P	1.000 EA
482413003Y	#3 SLEEVING (GREEN)	3.000 FT
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 EA
034530048HB	PP NIPP WRTD	1.000 EA
034530040HB	P/NIP 1-1/2X5L PLATED-b/s	1.000 EA
049843019G	PLTE 320 049843048WCA	1.000 EA
071421043G	C/BOX WDG RTD	1.000 EA
032375006HB	RHMS 8-32X3/4L PLATED	4.000 EA
032018007CK	HHCS 3/8-16X7/8L PLATED	4.000 EA
403938056A	GASK, LAC	1.000 EA
403938055A	GASK, TBOX MTG, LAC	1.000 EA
032018016DK	HHCS 1/2-13X2L PLTD.	4.000 EA
041009003F	TERMINAL LUG	4.000 EA
032018005CK	HHCS; 3/8X5/8	4.000 EA
705547088R	FAN, LAC	1.000 EA
403938027E	GASK, LAC	1.000 EA
041009003D	T & B LUG (A116)	18.000 EA

803076025A	SPACER TERM.BOX	1.000 EA
709239013B	AIR INLT BAFF FC -13A	1.000 EA
412043012C	PLUG - 210	1.000 EA
406673001E	CAP PLUG	2.000 EA
034690004AB	PPLG 1/2" PLATED	2.000 EA
034690004AB	PPLG 1/2" PLATED	2.000 EA
004793040A	BUTT SPLICE SPHTR	2.000 EA
419512012SG	LABELS, HEAT SHRINK SET	1.000 EA
034692001AB	HCSPP 1/8" PLATED	2.000 EA
034690004AB	PPLG 1/2" PLATED	4.000 EA
034690002AB	"unbulked" PPLG 1/4" PLTD.	4.000 EA
034691008AB	1 1/2 PIPE PLUG- BIN STOCK	2.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
807475027A	BRACKET FE GP G30 6313 VIB PROV, ENGLISH	1.000 EA
032018036CK	HHCS 3/8-16X4-1/2 PLTD.	4.000 EA
035000001AB	ALFTG CAT.NO.1627-B PLTD	1.000 EA
032018004AK	HHCS 1/4-20X1/2 PLATED	4.000 EA
710607004WPA	THRM BARRIER BRKT, LAC	1.000 EA
034530058EB	PP NIPP ODE GRS DR	1.000 EA
034630002AJ	PP CPLG ODE	1.000 EA
034630005AJ	PP CPLG ODE GRS DR	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
406673001E	CAP PLUG	2.000 EA
032130022HB	HXSCHCS BE BRKT- b/s 4/11/14	4.000 EA
032130012HB	HXSCHCS BE BRKT	1.000 EA
034530082BB	PP NIP ODE GRS FL	1.000 EA

035000001F	RELIEF FTG. G/DRN	1.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA
415045002L	SLGR	1.000 EA
034600007AB	RED.BSHG.GRS/DRN	1.000 EA
415916013L	T/BLK S/HTR LAC	2.000 EA
807470006A	AIR DEFL B/E BRKT	1.000 EA
034017014AB	LCKW 3/8 STD. PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
034000012AB	WSHR 1/4 STD. PLATED	4.000 EA
415915007B	GASK, 46" LAC	1.000 EA
034000012AB	WSHR 1/4 STD. PLATED	12.000 EA
034000016AB	WSHR .531ID 1.062OD .095	4.000 EA
034000016AB	WSHR .531ID 1.062OD .095	4.000 EA
033102016AB	NUT 1/2-13 PLATED - 360	4.000 EA
032018014DK	HHCS 1/2-13X1-3/4 PLTD	4.000 EA
705500324X	TERMINAL BOX WELDMENT 19X19X14	1.000 EA
705500324F	GASK, TERM BOX, LAC, FRONT COVER	1.000 EA
705500324E	BOTTOM COVER	1.000 EA
705500324D	CVR T/BOX FRONT	1.000 EA
705500324G	GASK, TERM BOX, LAC, BOTTOM COVER	1.000 EA
418199008B	N/P	1.000 EA
032080006LB	1/4 -20 X 3/4 HWHMS	22.000 EA
033519006MC	SHWHTS, 5/16-18 THREAD CUTTING	30.000 EA
402558004A	BRDRN- added to b/s 5/31	1.000 EA
419306099B	N/P - MAKE IN ASSEMBLY	1.000 EA
419306099A	N/P - MAKE IN ASSEMBLY	1.000 EA

419306099AG	N/P - MAKE IN ASSEMBLY	1.000 EA
034691004AB	1/2 PIPE PLUG	2.000 EA
406673000F	PPLG	1.000 EA
406673000B	PPLG	1.000 EA
412027034A	SUPPORT(T.B.) - G512	1.000 EA
415917001A	RTD TAG	4.000 EA
415916013C	T/BLK S/HTR LAC	1.000 EA
075459000A	C/BOX CVR W75459	1.000 EA
032130006AB	HSHCS 1/4-20X3/4L PLTD.	2.000 EA
065564000A	GASKET	1.000 EA
071422000A	C/BOX W 071422000	1.000 EA
047993000B	GASKET LAC	1.000 EA
032130007AB	HXSCHCS C/B CVR-449	10.000 EA
MP1011A01	4 MIL X 12FT X 100 FT POLYETHYLENE	0.100 RL
PK5006A09	WOOD BASE SHIPPING BASE	1.000 EA
034180032HA	KEY 5/8X5/8X4 L bin stocked	1.000 EA
NP3131	"BALDOR ONLY" INDUSTRIAL MOTOR, SS,	1.000 EA
PK4110A11	SHAFT BLOCKING	1.000 EA
406255394A	N/P	1.000 EA
LB1532	BALDOR LABEL, 12.00 LONG X 2.00 HIGH	2.000 EA
000692000EF	CAUTION LABEL	1.000 EA
MG1200G96	POLANE S PLUS – MED. CHARCOAL METALLIC	1.000 GA
609911003A	NAMEPLATE SUPPORT	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	10.000 EA
000692000CL	N/P	1.000 EA
000692000FR	WARNING, HIGH VOLTAGE LABEL	1.000 EA

406255121B	N/P	1.000 EA
406991001SL	INSTRUCTION MANUAL	1.000 EA

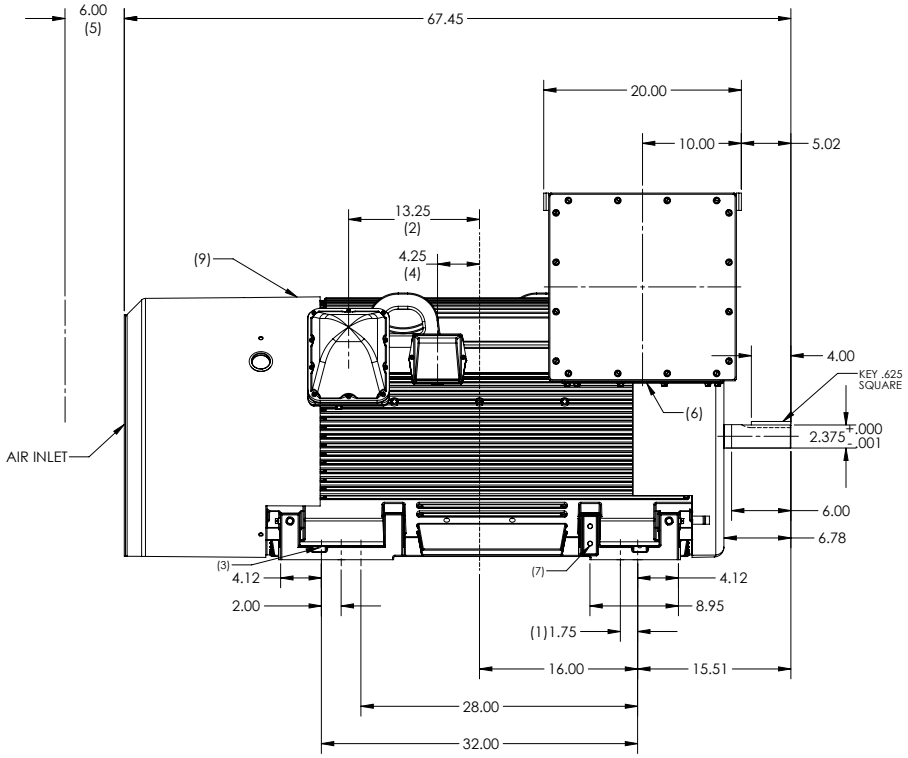
616159-806

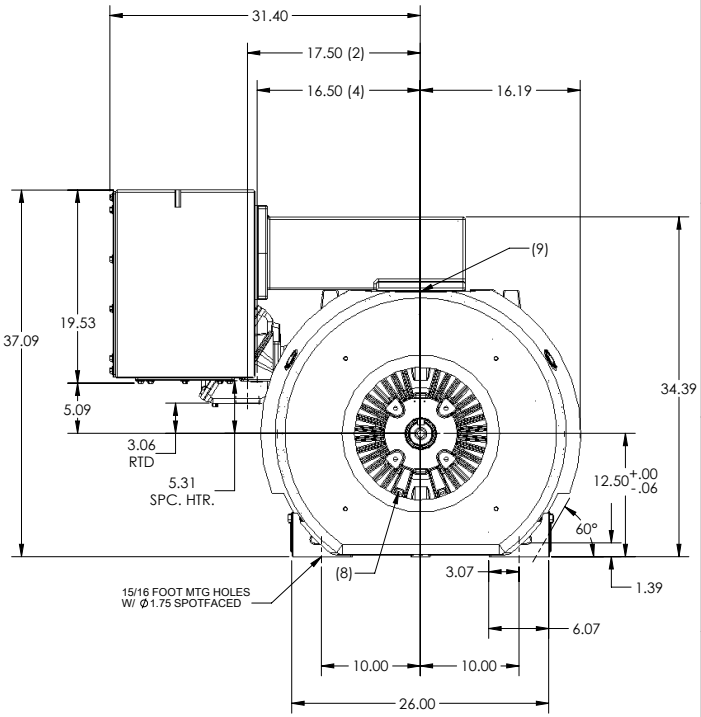
GENERAL PURPOSE STOCK ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

SQUIRREL-CAGE INDUCTION
3600 RPM MAX
FRAME G5010S
(COUPLED DUTY)
INCLUDES G5009 FRAME MOUNTING HOLES

COOLING: FAN COOLED
ANTI-FRICTION BEARINGS
ENGLISH HARDWARE
OVERSIZE MAIN CONDUIT BOX





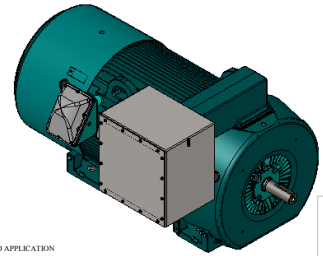
NOTES:
1. **(4) 3/4-10 JACKSCREW HOLES**
2. **2.0 NPT FOR WINDING TEMPERATURE DETECTOR LEADS**
3. **11/32 DOWEL PIN PILOT HOLES, 1 HOLE EACH FOOT**
4. **3/4 NPT FOR MOTOR SPACE HEATER LEADS**
5. **WALL OR OBSTRUCTION MUST NOT ENCROACH ON AIR INLET SPACE**
6. **CUSTOMER TO PROVIDE HOLE FOR MOTOR POWER LEADS**
7. **TWO GROUND PADS DIAGONALLY OPPOSITE EACH OTHER, TAPPED 1/2-13**
8. **1/8 NPT PROVISIONS FOR BEARING TEMPERATURE DETECTOR LEADS.**
9. **GREASE POINT**

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

WEIGHT (LBS): 5500 (MAXIMUM)
DIMENSIONS ARE IN INCHES

CATALOG #'S

M50352S-2340
M50402S - 2340
M50452S - 2340
M50502S - 2340
EM504525-4
EM505025-4



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE BOX TO FROM 19X19X12 TO 19X19X14
REV: F | VERSION: 06 | REVISED: 11:38:33 09/16/2016 | TDR: 000000997103
MODEL NO. 616159-806 | REF:
BY: MGHMTT | Material: | C

BALDOR

G5010S,TEFC,S/N,CPLD,3600,A/F,F1,19X19X14,U=2.375,XBA=15.50

908-651919

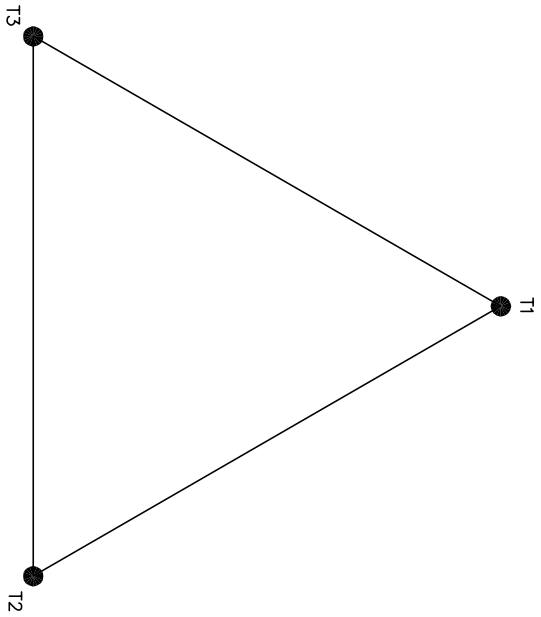
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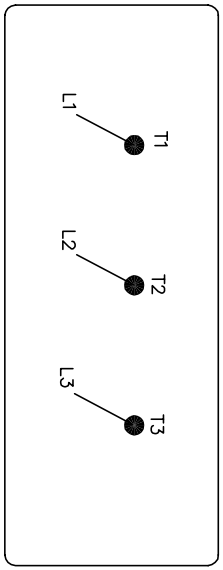
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416820–025

A–C MOTOR CONNECTION DIAGRAM

STANDARD 3 LEAD DELTA CONNECTED





(N. P. 1575-BA)

416820–025

REV. DESC: FIX VIEWING PROBLEM			BALDOR
REV. LTR: D	VERSION: 04	TDR: 000000542955	
FILE: \RAG\00001\809		REVISED: 01:53:08 05/28/2010	CONNECT DIAGRAM STD 3 LEAD DELTA CONNECTED
MTL: –		BY: RAGEC	SH 1 of 1

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