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BALDOR • RELIANCE

Product Information Packet

M50456LR-4

450HP,1193RPM,3PH,60HZ,5012,A50260M,TEFC

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Part Detail							
Revision:	E	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	A50260M	**Elec. Spec:**	A50WG5711	**CD Diagram:**	416820-025
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**		**Layout:**	616158-809
Frame:	5012	**Mounting:**	F1	**Poles:**	06	**Created Date:**	04-07-2015
Base:		**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	08-11-2016
Leads:	3#1/0 (03 per group) 4824-6-FB					**Replaced By:**	
Literature:		**Elec. Diagram:**					

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Nameplate NP3131

ENERGY EFFICIENT		**SERIAL NO.**							
CATALOG NO.	M50456LR-4	**SPEC NO.**	KGPM50456LR-4						
HP	450	**RPM**	1193	**FRAME**	5012	**HZ**	60	**SERVICE FACTOR**	1.15
VOLTS	460	**F.L. AMPS**	508	**PHASE**	3	**TYPE**		**ENCL.**	TEFC
F.L.EFF.	95.5	**F.L.P.F.**	86	**MOTOR WEIGHT**	5780	**INSUL.CLASS**	F		
DESIGN	-	**NEMA CODE**	G	**MAX AMBIENT**	40	**DUTY**	CONT		
	115	**C RISE/**	RES	**AT**		**HP**	518	**AMPS**	585
D.E. BRG.	120RU03M30X26	**O.D.E. BRG.**	110BC02J30X						
WDG. THERMAL	100 OHM	**QTY.**	6	**BRG. THERMAL**					
LUBE	POLYREX EM								
VOLTS	120/240	**AMPS**	2.9/1.46	**WATTS**	350/350	**QTY**	2		
CERTIFICATE OF COMP NO.	LR52580								
	NEMA NOM EFF = 95.4%								

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Parts List

Part Number	Description	Quantity
SA299853	SA KGPM50456LR-4	1.000 EA
RA286885	RA KGPM50456LR-4	1.000 EA
482406100FB	1/0 AWG, UL3374,BLACK,600V,BELDEN #37190	66.000 FT
419512002A	ID TAG, ROLL LAC	0.002 RL
041009000FD	T-LUG(ALTERNATE -7D)	9.000 EA
041009038J	INT. LEAD LUG- AMP 36948	9.000 EA
001575000BA	N/P LAC	1.000 EA
000692000SC	N/P	5.000 EA
482406100FB	1/0 AWG, UL3374,BLACK,600V,BELDEN #37190	18.000 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
616156056R	G30-GP CAP 6222 LOCKED/CONVERSION ENG	1.000 EA
032018004BK	HHCS 5/16-18X1/2 PLATED	4.000 EA
035051022AA	BBLCW W-22	1.000 EA
616156052A	CAP NU324 ENGLISH	1.000 EA
034017013AB	LCKW 5/16 STD. PLATED	4.000 EA
616145012A	THERMAL BARRIER, LAC	1.000 EA
T-0346-51	HALF KEY BALANCE 004600044CJ	1.000 EA
415915007C	GASK, LAC	1.000 EA
036150030NA	SKHD SSCR;STAT;BT-G508	3.000 EA
034690001AB	SQHDPLG, COND	2.000 EA

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Parts List (continued)

Part Number	Description	Quantity
034692001AB	HCSPP 1/8" PLATED	2.000 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
807468084A	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
034530048EB	PP NIPP ODE GRS DR	1.000 EA
034530072BB	PIPE NIPPLE,DE - 440-BS	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
417526009A	BRG SPACER - G512 BLANCHARD GRIND	1.000 EA
034600007AB	RED.BSHG.GRS/DRN	1.000 EA
032375004HB	SLRHMS 8-32X1/2 PLATED	2.000 EA
415915001A	GASK, LAC	7.000 FT
482413004Y	#4 SLEEVING (GREEN) PER FT	30.000 FT
482415000A	GREASE (MOBIL POLYREX EM)	2.652 LB
034186031GA	KEY FE FAN - G512	1.000 EA

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034017014AB	LCKW 3/8 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
PK4110A11	SHAFT BLOCKING	1.000 EA
PK5006A08	WOOD BASE SHIPPING BASE G5012	1.000 EA
482413003Y	#3 SLEEVING (GREEN)	3.000 FT
032018006AK	HHCS 1/4-20X3/4L PLATED	4.000 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
032375005HB	RHMS 8-32X5/8L PLATED	4.000 EA
032018007CK	HHCS 3/8-16X7/8L PLATED	4.000 EA
034530040HB	P/NIP 1-1/2X5L PLATED-b/s	1.000 EA
403938056A	GASK, LAC	1.000 EA
403938055A	GASK, TBOX MTG, LAC	1.000 EA
032018014DK	HHCS 1/2-13X1-3/4 PLTD	4.000 EA
034000016AB	WSHR .531ID 1.062OD .095	4.000 EA
041009003F	TERMINAL LUG	4.000 EA
032018005CK	HHCS; 3/8X5/8	4.000 EA
705547082R	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
032018016DK	HHCS 1/2-13X2L PLTD.	4.000 EA

709239014B	AIR INLT BAFF FC	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
807474043A	BRACKET MACH NU324	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
710607005WPA	THRM BARRIER BRKT, LAC	1.000 EA
034530040EB	PP NIPP DE 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
MP1011A01	4 MIL X 12FT X 100 FT POLYETHYLENE	0.100 RL
034530064BB	P/NIP 1/4X8 PLATED	1.000 EA
035000001F	RELIEF FTG. G/DRN	1.000 EA
034017012AB	LCKW 1/4 STD. PLATED	4.000 EA

415045002W	SLGR V-RING 4.53-4.92	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
705500324X	TERMINAL BOX WELDMENT 19X19X14	1.000 EA
705500324F	GASK, TERM BOX, LAC, FRONT COVER	1.000 EA
705500324D	CVR T/BOX FRONT	1.000 EA
705500324G	GASK, TERM BOX, LAC, BOTTOM COVER	1.000 EA
705500324E	BOTTOM COVER	1.000 EA
033519006MC	SHWHTS, 5/16-18 THREAD CUTTING	30.000 EA
418199008B	N/P	1.000 EA
402558004A	BRDRN- added to b/s 5/31	1.000 EA
419306099B	N/P - MAKE IN ASSEMBLY	1.000 EA
419306099AG	N/P - MAKE IN ASSEMBLY	1.000 EA
419306099A	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
034180064LA	KEY DRV END EXT	1.000 EA
NP3131	"BALDOR ONLY" INDUSTRIAL MOTOR, SS,	1.000 EA
406255394A	N/P	1.000 EA
000692000EF	CAUTION LABEL	1.000 EA
482403000BVZ	WILCO NO. 789.201 Per Eng use MG1200G96-	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
412043012C	PLUG - 210	1.000 EA
LB1532	BALDOR LABEL, 12.00 LONG X 2.00 HIGH	2.000 EA

BALDOR -RELIANCE SALES ORDER	FRAME	HP	TYPE	PHASE	HERTZ	RPM
A50WG5711-R001	5012	450	P	3	60	1193

VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
460	508	CONT	40	F	1.15	---

CODE LETTER	ENCL.	ROTOR WK^2 (lb-ft^2)	STATOR RES.@25°C OHMS (BETWEEN LINES)	TYPICAL DATA
G	TEFC	378	0.00784	

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	139.2	1200	5.5	0.0
1/4	113	190.8	1198	59.7	92.7
2/4	225	282.1	1197	78.4	95.2
3/4	338	389.7	1195	84.7	95.7
4/4	450	507.6	1193	86.9	95.5
5/4	563	637.1	1191	86.8	95.1
6/4	675	778.2	1189	85.8	94.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB-FT	AMPERES
LOCKED ROTOR	0	105	2080	3301.6
PULL UP	96	75	1479	3117.2
BREAKDOWN	1168	230	4548	1579.4
FULL LOAD	1193	100	1980	507.6

AMPERES SHOWN FOR **460** VOLT CONNECTION(S). IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE VOLTAGE.

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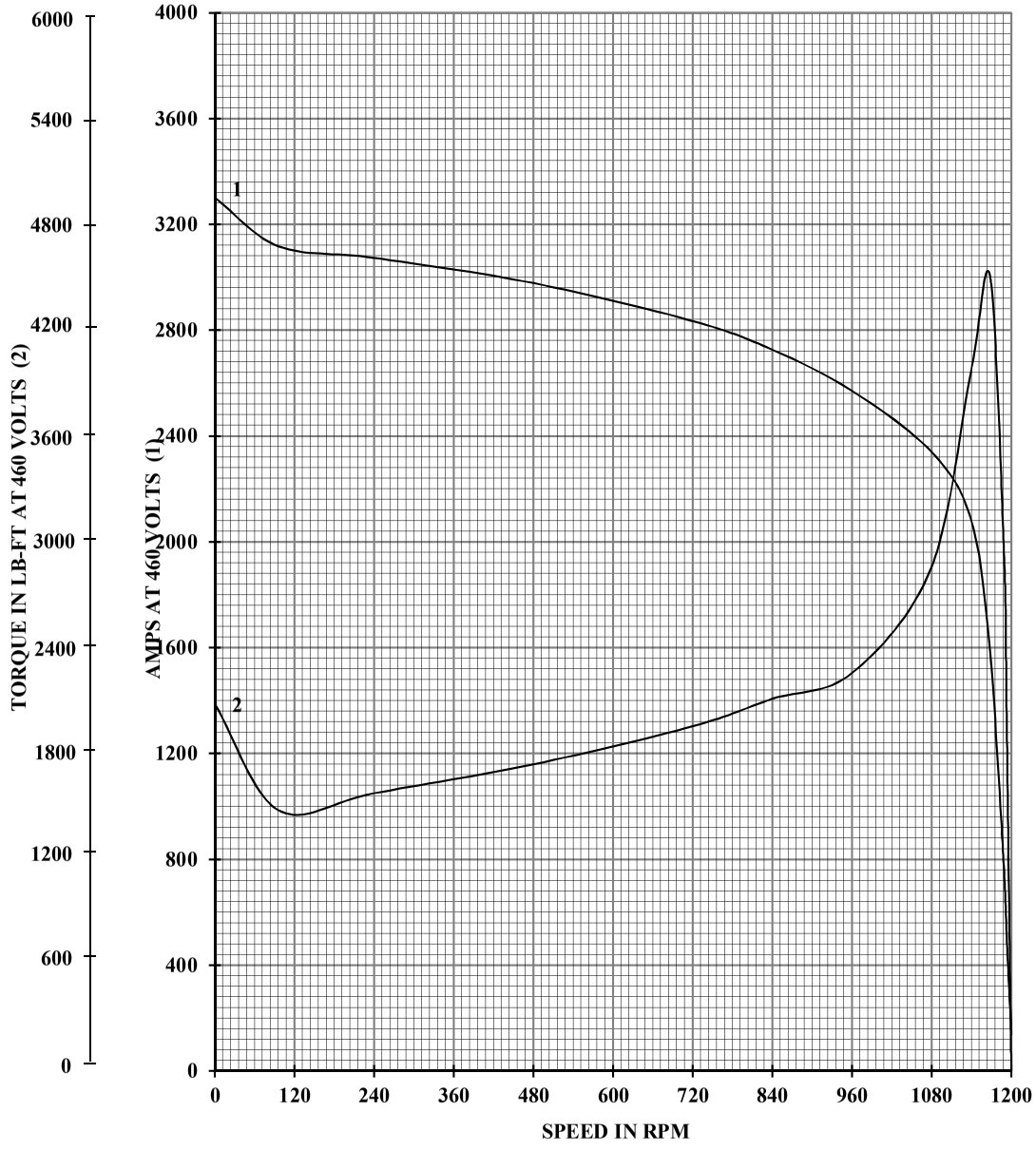
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DATE 4/2/2014

A-C MOTOR PERFORMANCE

V144583
SH 1 OF 7
ISSUE DATE: 4/2/2014

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B-R S.O.	A50WG5711-R001	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	5012	RPM	1193	INSUL	F	ENCLOSURE	TEFC
HP	450	VOLTS	460	S.F.	1.15	STATOR RES.@25°C	0.00784
TYPE	P	AMPS	508	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK² (lb-ft²)	378	TYPICAL DATA	



AMPERES SHOWN FOR **460** VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE VOLTAGE.

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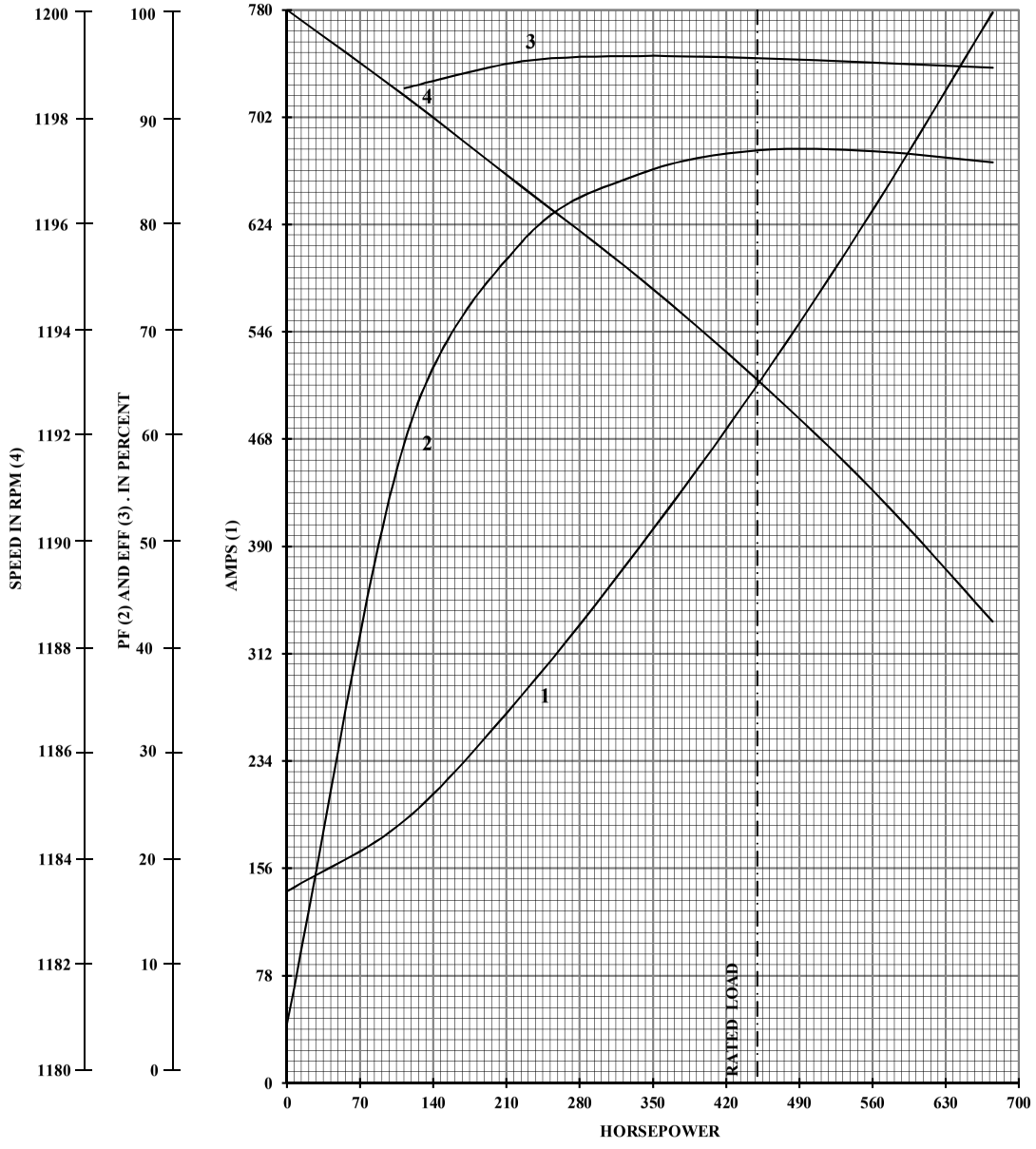
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A-C MOTOR PERFORMANCE CURVES

V144583
SH 2 OF 7
ISSUE DATE: 4/2/2014

BALDOR • RELIANCE Product Information Packet: M50456LR-4 - 450HP,1193RPM,3PH,60HZ,5012,A50260M,TEFC

B-R S.O.	A50WG5711-R001	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	5012	RPM	1193	INSUL	F	ENCLOSURE	TEFC
HP	450	VOLTS	460	S.F.	1.15	STATOR RES.@25°C	0.00784
TYPE	P	AMPS	508	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK² (lb-ft²)	378	TYPICAL DATA	



AMPERES SHOWN FOR **460** VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE VOLTAGE.

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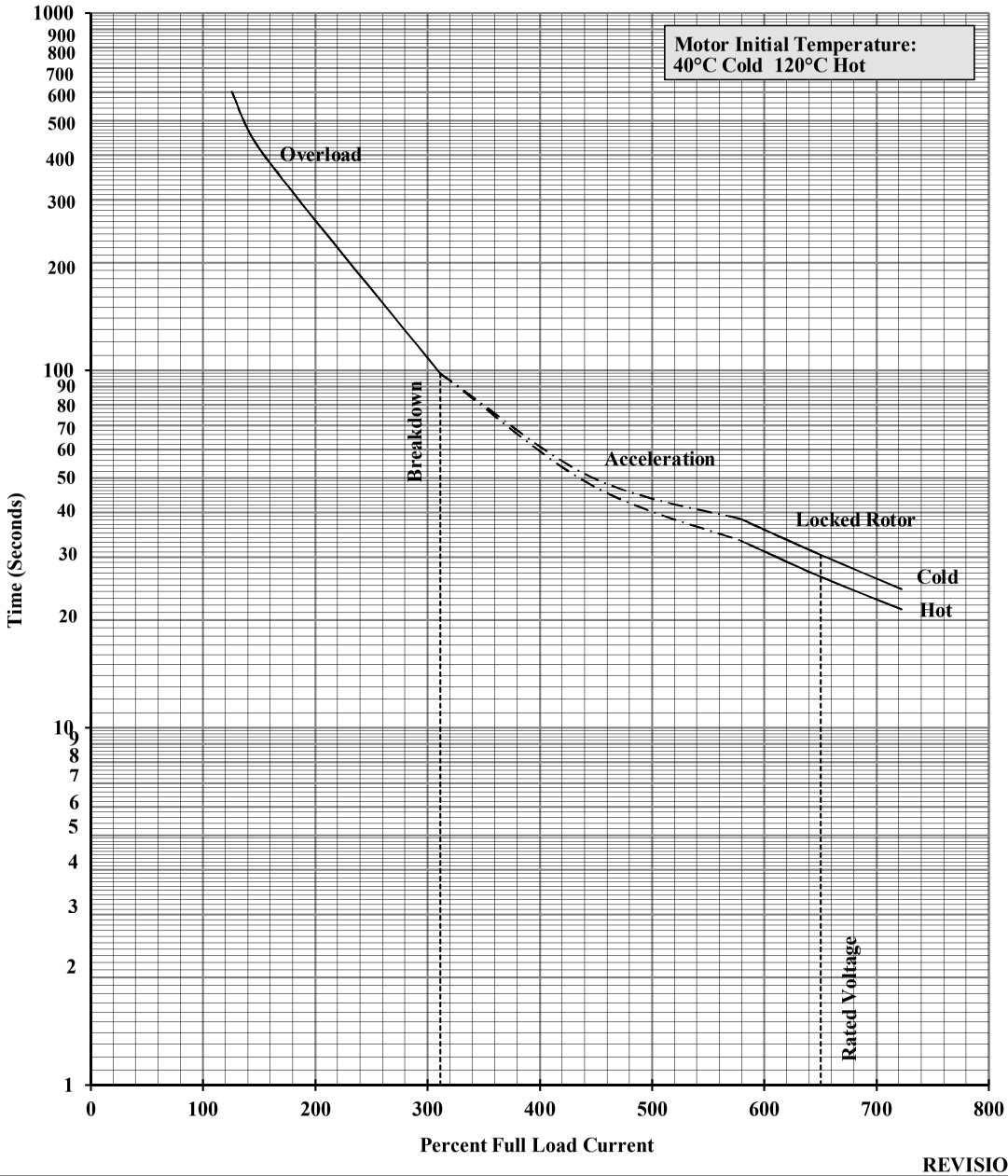
A-C MOTOR PERFORMANCE CURVES

V144583
SH 3 OF 7
ISSUE DATE: 4/2/2014

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B-R S.O.	A50WG5711-R001	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	5012	RPM	1193	INSUL	F	ENCLOSURE	TEFC
HP	450	VOLTS	460	S.F.	1.15	STATOR RES.@25°C	0.00784
TYPE	P	AMPS	508	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK² (lb-ft²)	378	TYPICAL DATA	

THERMAL LIMIT CURVES



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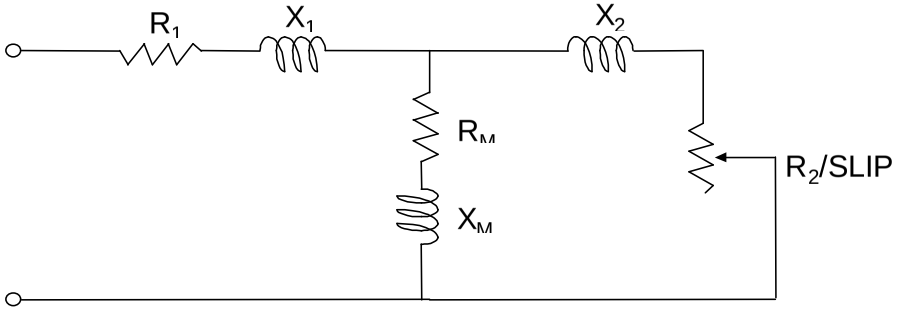
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B-R S.O.	A50WG5711-R001	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	5012	RPM	1193	INSUL	F	ENCLOSURE	TEFC
HP	450	VOLTS	460	S.F.	1.15	STATOR RES.@25°C	0.00784
TYPE	P	AMPS	508	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK² (lb-ft²)	378	TYPICAL DATA	

EQUIVALENT CIRCUIT DATA

(Per Unit, Per Phase)

FULL LOAD				LOCKED ROTOR			
R_1	0.00813	X_1	0.08186	R_1	0.00658	X_1	0.07004
R_2	0.00488	X_2	0.13827	R_2	0.01811	X_2	0.05524
R_M	0.09795	X_M	2.98869	R_M	0.33427	X_M	2.68016
BASE OHMS		0.63000		BASE VOLTS		266	
SC Time Constant		0.068 Sec		X" = X_S		0.12528	
OC Time Constant		1.700 Sec		X/R Ratio		12.84	



Parallel Equivalent			
FL R_M' pu	91.29007	LR R_M' pu	21.82366
FL X_M' pu	2.99190	LR X_M' pu	2.72185

R_1 = Stator dc resistance
R_2 = Rotor resistance
R_M = Core loss resistance
SC = Short circuit
OC = Open circuit
X_1 = Stator leakage reactance
X_2 = Rotor leakage reactance
X_M = Magnetizing reactance
FL = Full load
LR = Locked rotor

X" = X_S = Subtransient reactance

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A-C MOTOR PERFORMANCE CURVES

V144583
SH 5 OF 7
ISSUE DATE: 4/2/2014

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B-R S.O.	A50WG5711-R001	HERTZ	60	AMB°C	40	CODE LETTER	G
FRAME	5012	RPM	1193	INSUL	F	ENCLOSURE	TEFC
HP	450	VOLTS	460	S.F.	1.15	STATOR RES.@25°C	0.00784
TYPE	P	AMPS	508	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK² (lb-ft²)	378	TYPICAL DATA	

Recommended Winding and Bearing Temperatures

Stator Winding	Class B	Class F
Maximum Running Total Temperature	130 °C	155 °C
Alarm Total Temperature	135 °C	160 °C
Trip Total Temperature	145 °C	170 °C

Sleeve Bearings - Oil Lubricated	Bearing	Oil
Typical Running Total Temperature	93 °C	60 °C
Alarm Total Temperature	96 °C	70 °C
Trip Total Temperature	98 °C	75 °C

Anti-Friction Bearings - Grease Lubricated	Bearing	Grease
Typical Running Total Temperature	90 °C	80 °C
Alarm Total Temperature	110 °C	100 °C
Trip Total Temperature	120 °C	110 °C

Recommended Vibration Settings for Standard Motors

Speed (rpm)	Shaft Vibration (mils)		Bracket Vibration (mils)	
	Alarm	Shutdown	Alarm	Shutdown
3600	2.50	3.00	1.00	1.50
1800	3.00	3.50	2.00	2.50
1200	3.00	3.50	2.00	2.50
900 & Lower	3.00	3.50	2.00	2.50

		Bracket Vibration (in/sec pk)	
		Alarm	Shutdown
All Speeds		0.20*	0.30*

* 0 to 1000 Hz Spectrum

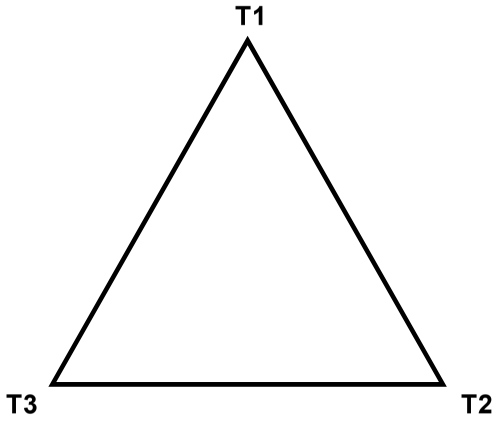
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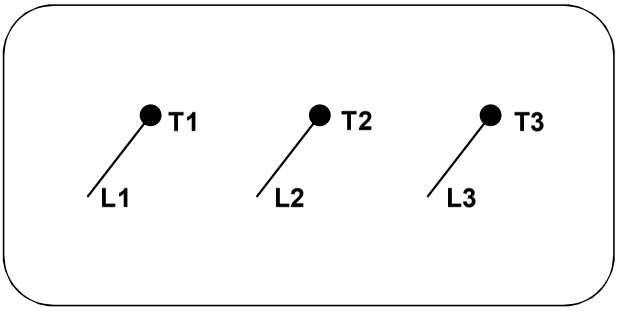
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TYPE	P	AMPS	508	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK^2 (lb-ft^2)	378	TYPICAL DATA	

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 3 LEAD DELTA CONNECTED





(N.P. 1575-BA)

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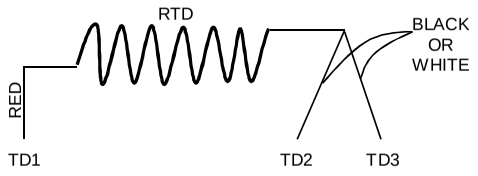
RESISTANCE TEMPERATURE CONNECTION DIAGRAM

WINDING

100 OHM @ 0°C

BEARING

N/A



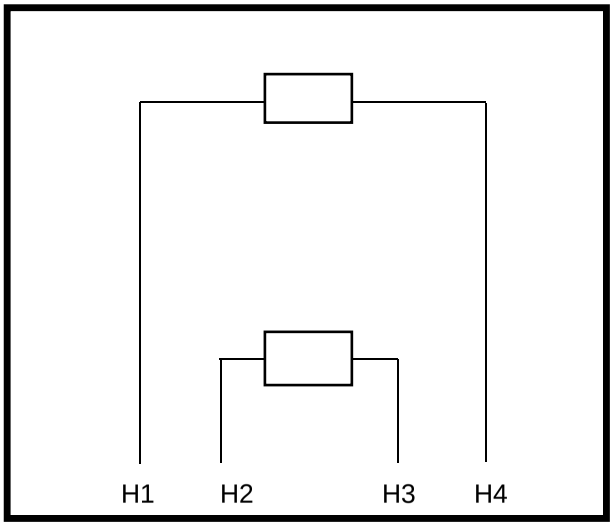
BALDOR · DODGE · RELIANCE	DR. BY Chris Stockton CK. BY Chris Stockton APP. BY Joe Hillhouse DATE 3/5/2014	A-C MOTOR AUXILARY CONNECTIONS	G30_GP SHEET 1 OF 2

BALDOR · RELIANCE Product Information Packet: M50456LR-4 - 450HP,1193RPM,3PH,60HZ,5012,A50260M,TEFC

SPACE HEATER CONNECTION

VOLTS 120/240 **AMPS** 2.9/1.46 **WATTS** 350/350

PHASE 1 **HZ.** 60



HEATER CONNECTIONS

LOW VOLTAGE - PARALLEL
L1 - H1 & H2
L2 - H3 & H4

HIGH VOLTAGE - SERIES
L1 - H1
L2 - H2
CONNECT H3 TO H4

BALDOR · DODGE · RELIANCE	DR. BY Chris Stockton CK. BY Chris Stockton APP. BY Joe Hillhouse DATE 3/5/2014	A-C MOTOR AUXILARY CONNECTIONS	G30_GP SHEET 2 OF 2

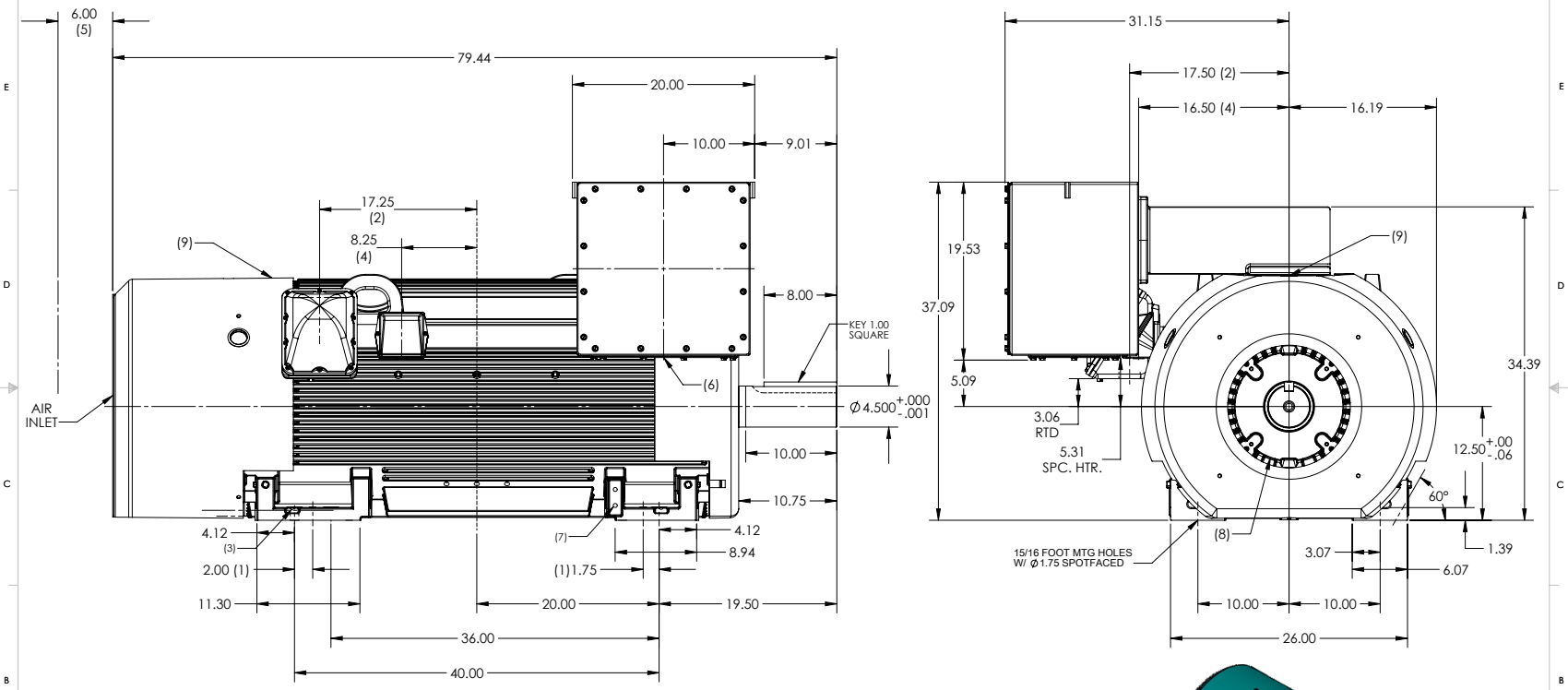
616158-809

GENERAL PURPOSE STOCK ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

SQUIRREL-CAGE INDUCTION
1200 RPM (MAX)
FRAME G5012L / LR
(FIELD CONVERTIBLE BELT/COUPLE)
INCLUDES G5011LR 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.

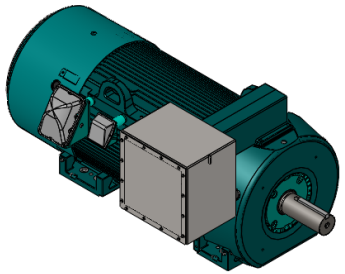
608-851919

WEIGHT (LBS): 6600 (MAXIMUM)

DIMENSIONS ARE IN INCHES

CATALOG #'S

M50456L-4	**EM50406L-4**
M50456LR-4	**EM50456L-4**
M50506L-4	**EM50506L-4**
M50506LR-4	**EM50506LR-4**
M50606L-4	
M50606LR-4	
M50408LR-4	
M50406LR-2340	
M50456LR-2340	
M50506LR-2340	



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: G | VERSION: 07 | REVISED: 09:52:55 09/16/2016 | TDR: 000000997103
MODEL NO. 616158-809 | REF:
BY: MGHMTT | Material: | C

BALDOR

G5012LR,TEFC,S/N,CONV,1200,A/F,F-1,19X19

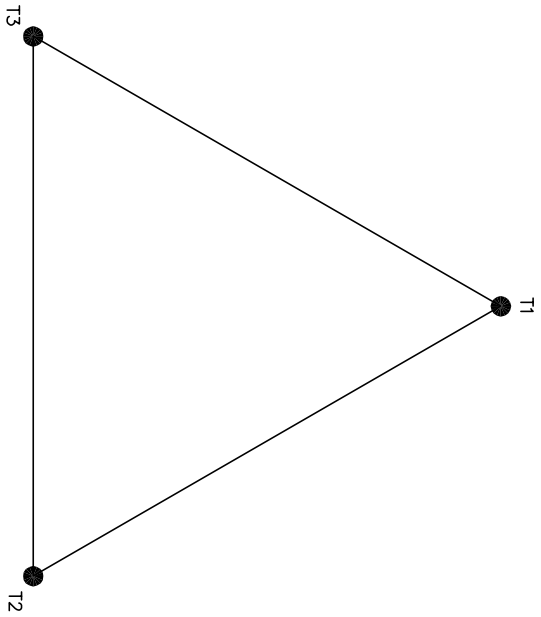
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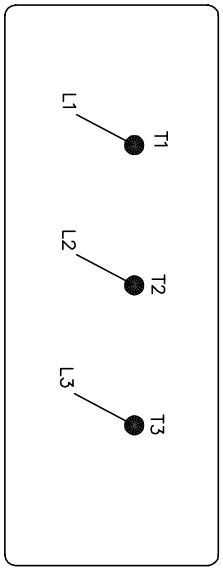
BALDOR
A MEMBER OF THE ABB GROUP

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

BALDOR A MEMBER OF THE ABB GROUP