

BALDOR® • RELIANCE 

Product Information Packet

SUL50204SM

2HP,1800RPM,1PH,60HZ,180TY,TENV,FOOTLES

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A00007J AL010	CD Diagram:		Mfg Plant:	
Mech. Spec:		Layout:	066930-501	Poles:	04	Created Date:	04-09-2015
Base:		Eff. Date:	04-13-2015	Leads:			

Specs			
Catalog Number:	SUL50204SM		
Enclosure:	XPNV		
Frame:	180TY		
Frame Material:	Iron		
Output @ Frequency:	2.000 @ 60 HZ		
Voltage @ Frequency:	115 V @ 60 HZ		
	230 V @ 60 HZ		
XP Class and Group:	CLI GP C,D		
XP Division:	Division I		
Agency Approvals:	CCSA US		
	CSA		
	UL		
Base Indicator:	No Mounting		
Bearing Grease Type:	Polyrex EM (-20F +300F)		
Current @ Voltage:	14.4 A @ 230 V		
	28.8 A @ 115 V		
Design Code:	L		
Drip Cover:	No Drip Cover		

Duty Rating:	15 MIN		
Heater Indicator:	No Heater		
Insulation Class:	F		
Inverter Code:	Inverter Ready		
KVA Code:	K		
Lifting Lugs:	Vertical Lifting Lugs		
Mounting Arrangement:	V1		
Product Family:	Other		
Pulley End Bearing Type:	Ball		
Pulley Face Code:	P-Base		
Shaft Rotation:	Fixed Standard		
Shaft Slinger Indicator:	No Slinger		
Speed Code:	Single Speed		
Motor Standards:	NEMA		
Starting Method:	Direct on line		
Thermal Device - Winding:	Normally Closed Thermostat		
XP Temp Code:	T3C		

Nameplate 000613007AC		
CLASS I GROUP	C D X	NO. <input type="text"/>
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

Nameplate 000613007MN									
CAT NO	SUL50204SM		SPEC NO.	C18G2702					
HP	2	AMPS	28.8/14.4		VOLTS	115/ 230		DESIGN	
FRAME SIZE	X0180TY	RPM	1720		HZ	60	AMB	40	
D.E. BRG.	50BC02JPP30A		PH	1		DUTY	*		
O.D.E. BRG.	25BC02JPG30A		TYPE	CS		ENCL	TENV		
			POWER FACTOR						
			MAX CORR KVAR						
			NEMA NOM/CSA QUOTED EFF @						
SER.NO.			MOTOR WEIGHT	270		LBS.		GUARANTEED EFFICIENCY	
								100% LOAD	
	IP68; *15 MIN IN AIR ;SUB.IN								
	WATER/SEWAGE ONLY; FINAL CONN								
	AT 230V SEE MANUAL FOR								

Nameplate 000613007MR									
CAT NO	SUL50204SM		SPEC NO.	C18G2702					
HP	2	AMPS	28.8/14.4		VOLTS	115/ 230		DESIGN	
FRAME SIZE	X0180TY	RPM	1720		HZ	60	AMB	40	
D.E. BRG.	50BC02JPP30A		PH	1		DUTY	*		
O.D.E. BRG.	25BC02JPG30A		TYPE	CS		ENCL	TENV		
			POWER FACTOR						
			MAX CORR KVAR						
			NEMA NOM/CSA QUOTED EFF @						
SER.NO.			MOTOR WEIGHT	270		LBS.		GUARANTEED EFFICIENCY	
								100% LOAD	
	IP68; *15 MIN IN AIR ;SUB.IN								
	WATER/SEWAGE ONLY; FINAL CONN								
	AT 230V SEE MANUAL FOR								

Nameplate 000692000MB	
MAXDEPTH CW ROTATION;	
C18G2702L	

Nameplate 000692000MB

CONTROL BOX 701455002C

MODEL NUMBER C18G2702

HP 2 RPM 1720 VOLTS 115/230

AMPS 28.8/14.4 HZ 60

PHASE 1

W/D 413450-12

FINAL CONNECT AT 230V

DO NOT MOUNT IN HAZARDOUS LOCATION

Parts List		
Part Number	Description	Quantity
SA297502	SA C18G2702	1.000 EA
RA284471	RA C18G2702	1.000 EA
000613007AC	UL NAMEPLATE FOR HAZARDOUS LOCATIONS	1.000 EA
000613007MN	NP,MEDIUM AC,NO CERT,STD INDUSTRIAL	1.000 EA
000613007MR	NP, MEDIUM AC, CSA, STD INDUSTRIAL	1.000 EA
000692000EJ	NAME PLATE	1.000 EA
000901001AA	LABEL WARNING	1.000 EA
000692000MB	BALDOR RELIANCE MOTOR DATA NAMEPLATE	1.000 EA
034692002AE	HCSPP 1/4" 304 S.S.	1.000 EA
004824015A	GREASE POLYREX EM	1.000 LB
000692000MB	BALDOR RELIANCE MOTOR DATA NAMEPLATE	1.000 EA
032018010CG	HHCS 3/8-16X1-1/4L 316SS	4.000 EA
032130008CC	HSHCS 3/8-16 X 1.00" L	4.000 EA
032620020JD	HSSS 10-24X5/8L 304S.S.	1.000 EA
034692003AE	PPLG 3/8" 304 S.S.	2.000 EA
047174005B	SNAP RING	1.000 EA
047174005C	SNAP RING	1.000 EA
064262012B	SEAL	1.000 EA
064262012C	SEAL	1.000 EA
088204001AA	BRKT,DE,180SUB 88204-1WA	1.000 EA
088205002A	SUB PLT 180 88205-2WCB	1.000 EA
413412004A	SUBM MOISTURE PROBE	2.000 EA
413412005R	LEAD WIRE ASSY(BLANKET	1.000 EA
413480001R	RESISTOR ASSEMBLY-BLANKET	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
421900124FU	ORING	1.000 EA
421900124FU	ORING	1.000 EA
603760001AA	LABYRINTH	1.000 EA
032018006BM	HHCS 5/16-18X3/4 PLTGRN.	1.000 EA
032018008BG	HHCS 5/16-18X1 BRASS-447	4.000 EA
047024017A	QUICK CONN. 19008-002	2.000 EA
421900072FU	ORING	1.000 EA
424476003ZA	WIRING DIAGRAM MEDIUMA	1.000 EA
700385017F	CCA #8 25' 180	1.000 EA
701455002C	CT/BOX	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 EA
034180008CD	3/16 SQ. X 1IN. KEY	1.000 EA
032375012GB	HSOSS 6-32X1-1/2~ PLATED	4.000 EA
034017007AB	LCKW NO.6 PLATED	4.000 EA
088203012A	BRKT,ODE,180SUB	1.000 EA
411140000AA	SWITCH ASSY SUBMERSIBLE	2.000 EA
413412007R	LEAD WIRE SWITCH	2.000 EA
421900124FU	ORING	1.000 EA
004824018AF	SHELL ROTELLA OIL 10W	1.500 LB
032018006AG	HHCS 1/4-20X3/4L 316 SS	3.000 EA
032018010CG	HHCS 3/8-16X1-1/4L 316SS	4.000 EA
000901001AA	LABEL WARNING	1.000 EA
B3630-9	SUBM THERMOSTAT TAG	1.000 EA
B-3664002	TAG, (NON REGREASABLE)	1.000 EA

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
0	182T	2	CS	1/60	1720	115/230
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
28.8/14.4	*	40/F	1.15	-	K	SUB
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (OHMS BETWEEN LINES)		
781002	418424-50BR	-	-	.86/3.9		

PERFORMANCE


LOAD	HP	AMPERES	RPM	INPUT KW	POWER FACTOR	EFFICIENCY
NO LOAD	0	8.4	1800	.700	36.2	0
1/4	.53	8.7	1770	1.13	56.5	35.0
2/4	1.03	10.2	1754	1.54	65.6	50.0
3/4	1.52	12.1	1735	1.98	71.1	57.2
4/4	2.00	14.4	1720	2.45	73.9	60.9
5/4	2.46	16.9	1691	2.95	75.9	62.2

SPEED TORQUE

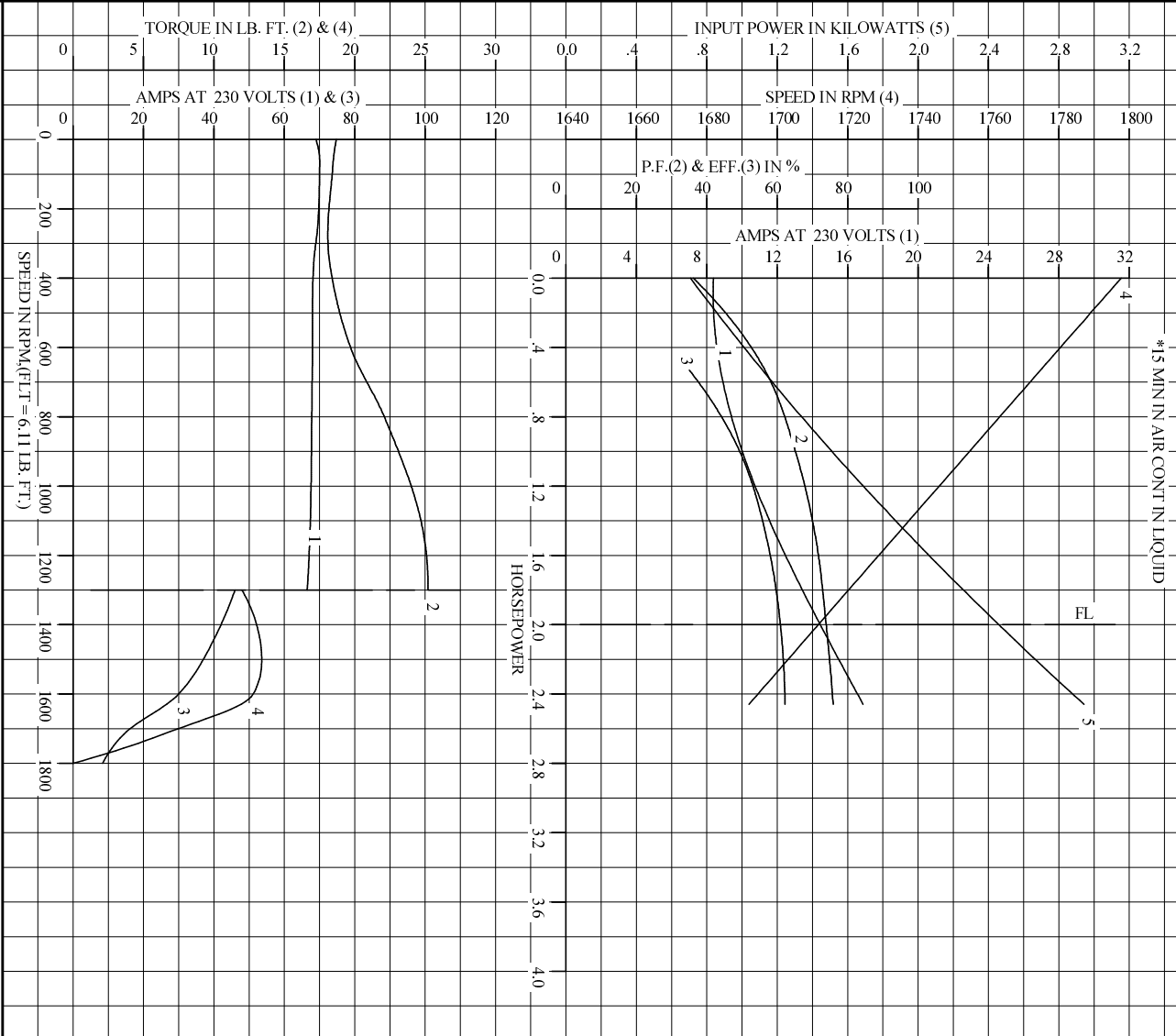
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	306	18.7	69.0
PULL UP	1300	196	12.0	46.0
BREAKDOWN	1500	219	13.4	37.0
FULL LOAD	1720	100	6.11	14.0

AMPERES SHOWN FOR 230. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: CALCULATED DATA
*15 MIN IN AIR CONT IN LIQUID

 BALDOR • DODGE • RELIANCE	DR. BY	D. M. BYRD	A-C MOTOR PERFORMANCE DATA A00007-JAL010 ISSUE DATE 07/22/09
	CK. BY	Z. M. WOLFE	
	APP. BY	D. M. BYRD	
	DATE	07/02/98	

REL. S.O. 0
 FRAME 182T
 HP 2
 TYPE CS
 PHASE/HERTZ 1/60
 RPM 1720
 VOLTS 115/230
 AMPS 28.8/14.4
 DUTY *
 AMB °C/INSUL 40/F
 E/S 781002
 S.F. 1.15
 NEMA DESIGN -
 CODE LETTER K
 ENCLOSURE SUB
 STATOR RES. @ 25 °C .86/3.9
 OHMS (BETWEEN LINES)
 ROTOR 418424-50BE
 TEST S.O. CALCULATED DATA
 TEST DATE -
 STATOR RES. @ 25 °C .86/3.9
 OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DR. BY D.M.BYRD
 CK. BY Z.M.WOHL
 APP. BY D.M.BYRD
 DATE 07/02/08

A-C MOTOR
PERFORMANCE
CURVES
 A00007-1A1.010
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