

BALDOR® • RELIANCE

Product Information Packet

GP3303

G.M. F27UA 90VDC 20:1 918 GEARING

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:		Prod. Type:		Elec. Spec:		CD Diagram:	
Enclosure:	TENV	Mfg Plant:		Mech. Spec:		Layout:	33-2408Z148G1K3
Frame:	JH	Mounting:		Poles:		Created Date:	
Base:		Rotation:	R	Insulation:		Eff. Date:	05-06-2016
Field Type:		Literature:		Elec. Diagram:		Replaced By:	

Nameplate NP1286A06			
SPEC.	33-2408Z148G1K3		
R.P.M.	125	DATE CODE	DATE CODE
RATIO	20:1	TORQ/IN LB	145

Parts List		
Part Number	Description	Quantity
SR000947	SR 33-2408Z148G1K3	1.000 EA
33-2408Z148G1	.5HP,2500RPM,DC,42CZ,3327P,TENV,F1,N	1.000 EA
HW3081C06	3/32 X 5/8 GROOVE PIN TYPE A,THRU HARDEN	1.000 EA
MJ5019A01	ADHESIVE LOCTITE #680 WAS BAD4525	0.010 EA
HA6032A04G	ADAPTER, MACH F/BOEHM MACH'D. FOR SEAL	1.000 EA
HW4600B91	SEAL, TCM #06132TB .625X1.375X.252	1.000 EA
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HG0039A04G	HSG,JK EX CLOSED W/ GRAY POWDER COAT	1.000 EA
BS0114A01G	BS,JH OP 6204STD OPEN W/ GRAY POWDER COA	1.000 EA
HW5002A57	WALDES N5002-187 BEVELED 1.850	1.000 EA
60XM0832A08	SCREW, PAN TORX 8-32X.500 THREAD FORMING	4.000 EA
RM1020A21	O-RING,3.240 I.D. X .052 BUNA-N (NITRILE	1.000 EA
WM0055A17	WORM,JH 20.0 INP PINNED ON (918 GEOME	1.000 EA
MJ1000B02	KLUB. GH6-460 GEAR OIL 1 GALLON	0.030 GA
HW5109A10	WASHER, WAVE SPRING FOR 47MM BORE SMALLE	1.000 EA
HW4600G71	SEAL, .750 X 1.250 X .250 SGL LIP FT802	1.000 EA
RM1057	RUBBER SQUARE RING 1.424 I.D.	1.000 EA
19XN1032A12	SCREW, HEX WASHER HEAD, #10-32 X .750	4.000 EA
HA1194B01	BLADDER,CJK EXPANSION	1.000 EA
15XM0632A06	SCREW, 6-32X .375, THREAD FORMING	3.000 EA
HW2501D10	KEY, 3/16 SQ X 1.000	1.000 EA
HA4021A05	1/16 NPSF-HX SOC PIPE PLUG TAPER DRY SEA	1.000 EA
NP1286A06	NP,GR AD NONE H	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
CPA1001	PACKING GROUP OVERSIZED SINGLE	1.000 EA
PK3090	2" X 7 1/8 X 6 1/2" CRADLE	1.000 EA
ME4000	.375-.75" DIA.#SW-04 WOVEN SHAFT PROTECT	0.125 FT

Accessories		
Part Number	Description	Multiplier
BC140	CS2934A,120/240VAC .5/1-HP SCR CTL,NEMA	E9
BC140-FBR	3479G KBMD-240D w/FBR CN3000A54	E9
BC141	CHASSIS MOUNT FSCN CN3000A20	E9
BR0025	PLUG IN RESISTOR,0.025 ohm	E9

DC Motor Performance Data

Record # 352 - Typical performance - not guaranteed values

Winding: 33WGZ148-R002	Type: 3327P	Enclosure: TENV
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Nameplate Data		General Characteristics	
Rated Output (HP)	0.5	Armature Resistance @ 25°C	0.664 Ω
R.P.M.	2500		
Armature Volts	90	Voltage Constant	35.76 v/krpm
Armature Amps	5		
Field Volts		Armature Inductance	5.119 mH
Field Amps		Armature Inertia	6.318 LI ²
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.5	2.5	3.5	4.6	5.4	6.7	8.8
R.P.M.	2526	2469	2447	2426	2415	2375	2332
Torque (LB-FT)	0	0.5	0.75	1	1.25	1.5	2

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values





