

ABB BALDOR RELIANCE III

Customer information packet

CDPWD3603

3HP, 1750RPM, DC, 184TC, 3649P, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	180 V
Base Speed	1750 rpm
Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	3.000 HP
Agency Approvals	CE CSA UR
Ambient Temperature	40 °C
Armature Current	14.0 a
Armature Inertia	107.110 lb-ft ²
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Lifting Lugs	Standard Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	24.33 IN
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	BC
Type	DC
Mech. spec.	36P126
Base	
Status	PRD/A
Elec. spec.	36WGZ507
Layout	36LYP126
Eff. date	03-19-2026
CD Diagram	CD0194
Poles	00
Leads	2#12 A Y
Proprietary	False
Created date	01-01-0001

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Nameplate

NP1509					
CAT.NO.	CDPWD3603				
SPEC.	36P126Z507				
HP	3/KW2.24	ENCL		TEFC	
RPM	1750				
FRAME	184TC	TYPE		3649P	
ARM V	180	ARM A		14	
FLD V		FLD A			
INSUL	F	AMB.		40	
DUTY	CONT	SUPPLY		K	
BRG/DE	6206	BRG/ODE		6206	
BRUSHES	2/BP5031A01				
	BLANK				
SER.					
BLANK	IP55 KG 51				
APRV-CSA	Y	APRV-UL	Y	APRV-CE	Y

Parts List

Part number	Description	Quantity
SA043650	SA 36P126Z507	1.000 ea
AA005125	AA 36P126Z507	1.000 ea
BP5031A01SP	CARBON BRUSH, GRADE H45 180 VOLTS	1.000 ea
BP5030	BRUSH SPRING FOR 36DC/PM MOTORS	2.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
HW1000A38	WASHER, 3/8" FLAT, SAE Z/P	2.000 ea
36CB3000A39W	CONDUIT BOX MACH'G .50 N.P.T.	1.000 ea
36GS1000A01	GASKET - CONDUIT BOX 35 & 36 PM FRAME	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36EP3402A04WP	FREP, MACH, WHITE PRIMER POWDER COAT	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
26XW1032A08	10-32 X 1/2 PHILLIPS HEAD TAPTITE-II (SI	4.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW4600B50	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
HW4600B50	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36EP3302A02WP	PUEP, MACH, WHITE PRIMER POWDER COAT	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH5000A11W	36FH5000A11 W/WHT EPOXY	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
WD4100A05	DP-1093 HEYCO PLUG OR 62MP1093 MICOR PL	1.000 ea
35CB4514WP	CB LID LIPPED, WHITE PRIMER POWDER COAT	1.000 ea
36CB4500WSP	CONDUIT BOX LID, STAMPED W/WHITE EPOXY	2.000 ea
36GS1001A05	GASKET - CONDUIT BOX LID 36 FRAME	2.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	8.000 ea
36GS1001A05	GASKET - CONDUIT BOX LID 36 FRAME	1.000 ea

59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
HW2502E16	#303 SS,SQ KEY 1/4 X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LB1164	LABEL,WARNING AND DRAIN	2.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
MG1025W01	WILKOFAS, 781.01, SIGNAL WHITE #9003	0.019 ga
MG1500Y02	WILKOPON PRIMER YELLOW	0.019 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
NP1509	DC, WD, UL CE CSA, W/O THERMAL	1.000 ea
MG5010A01	TRICKLE VARNISH (PEDIGREE 600 S)	0.005 ga
MG5010Z01	488 (TPB) CATALYST	0.001 lb
36RK5009	ROCKERARM ASSY 36PM TYPE 3649P MTR (.428	1.000 ea
HA3101S40	THRUBOLT 1/4-20 X 12.687	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0194	CONNECTION LABEL	1.000 ea
37PA1016	PKG GRP, PRINT PK1035A06	1.000 ea

DC Motor Performance Data

Record # 311

Typical performance - not guaranteed values

Winding: 36WGZ507-R001		Type: 3649P	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	3	Armature Resistance @ 25°C	0.3209 Ω
R.P.M.	1750		
Armature Volts	180		
Armature Amps	14		
Field Volts			
Field Amps			
Rating - Duty	40C AMB-CONT		
Power Supply Code	K		

Load Characteristics at 180 Armature Volts

Load Point	1	2	3	4	5	6	7
Armature Amps	0.4	3.37	6.34	9.01	12.28	13.51	20.45
R.P.M.	1860	1844	1827	1813	1795	1788	1750
Torque (LB-FT)	0	2	4	5.8	8	8.83	13.5

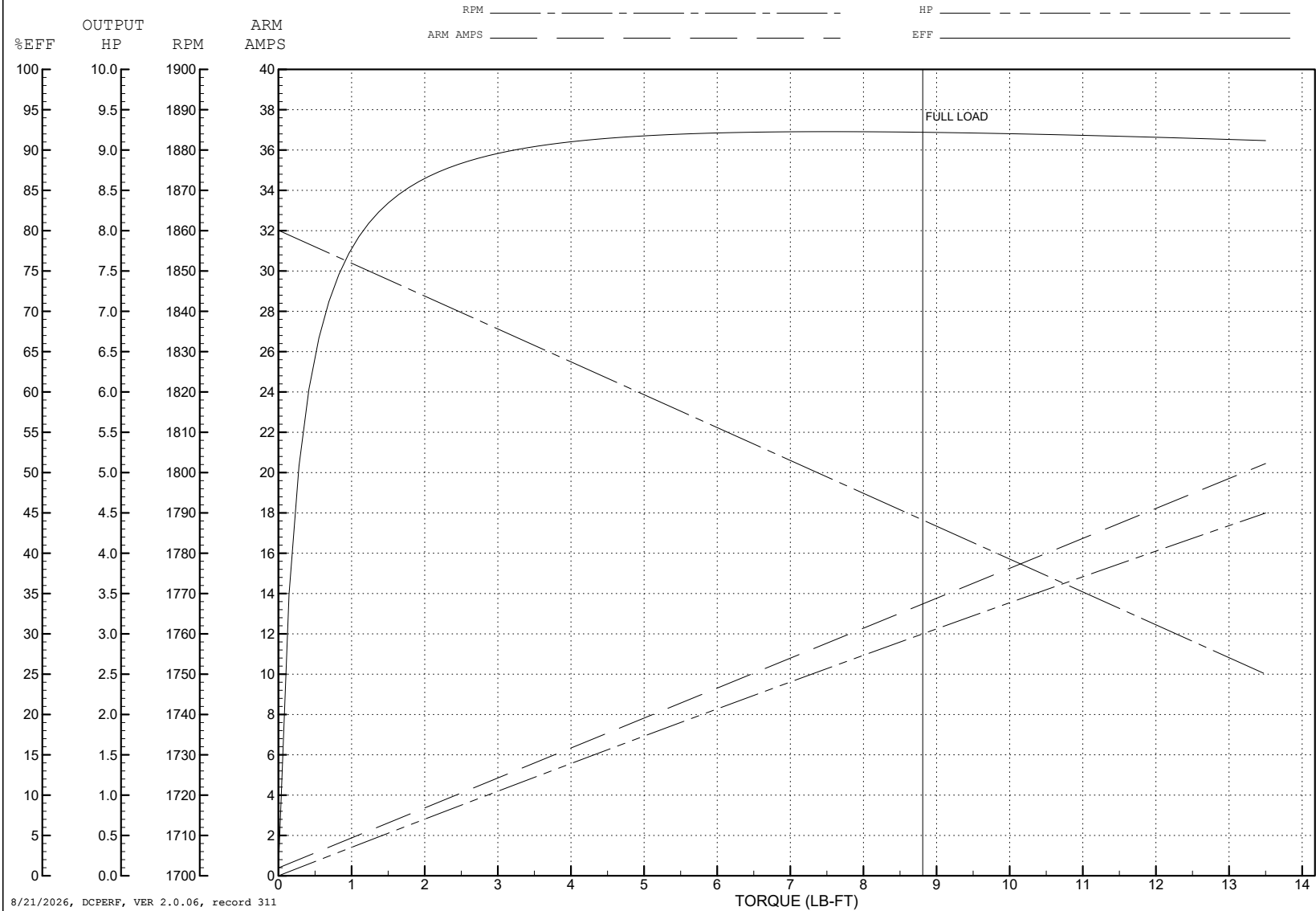
ABB Motors and Mechanical Inc.

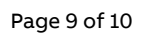
WINDING # 36WGZ507

Typical performance - not guaranteed values.

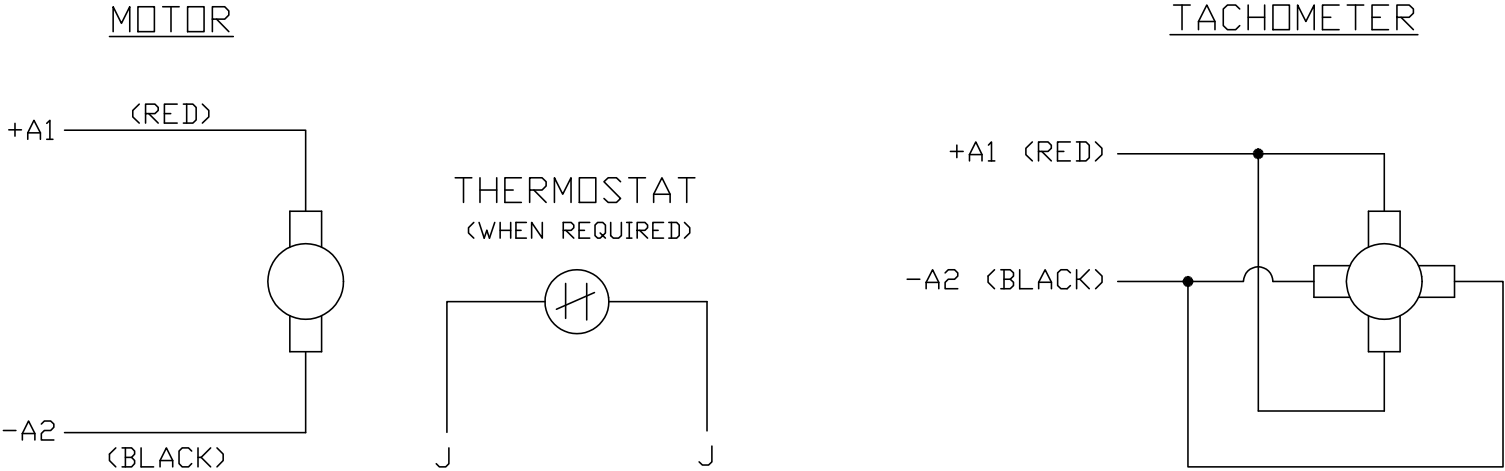
3 HP DC 1750 RPM 180 V 3649P

ENCL: TEFC DUTY: CONT CL: F





CD0194



NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)
2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

MATL: -

REV: E

ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &..."

CD0194

SCALE: -

BY: CK

REVISED: 07/28/95

FILE: AAA00004503

TDR: 0078737

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194