



Catalog #: XS13CA2J

Model Number:	CH63ABF1027015B
PRODUCT NAME:	.33 HP - TEFC - 1725
PHASETYPE:	1_CAPACITOR START
MOTOR ENCLOSURE:	TEFC
HORSEPOWER:	.33
KILOWATTS:	0.3
POLES:	4
NUMBER SPEEDS:	1
RPM:	1725
HERTZ:	60
VOLTS PRIMARY:	115/208-230 V
VOLTS :	115
VOLTS 2:	208
VOLTS 3:	230
FRME :	56
STATOR DIAMETER:	6.3
STACK:	1.5
MOUNTING:	RIGID BASE
MOTOR TYPE:	FHP
OPPOSITE END BEARING:	6203
SHAFT END BEARING:	6203
AMBIENT:	50
ROTATION:	REVERSIBLE
SERVICE FACTOR:	1
STARTCAPMFD:	238
SHIPPING WEIGHT:	32
THERMAL PROTECTION:	AUTOMATIC RESET
BREAKDOWN TORQUE:	59.81
BREAKDOWN TORQUE UOM:	OZFT
LOCKED ROTOR TORQUE:	75.65
LOCKED ROTOR TORQUE UOM:	OZFT
INSULATION CLASS:	B
KVA CODE LETTER:	N
LOCKED ROTOR AMPS:	28.93
FULL LOAD AMPS PRIMARY:	6.8/3.3-3.4

SHAFT KEY TAPED TO MOTOR

8.75
3.500 +.000 / -.060

KNOCKOUT 1.125 DIA.
KNOCKOUT .484 DIA. W/KEY .031 DEEP
KNOCKOUT .875 DIA.
KNOCKOUT .625 DIA

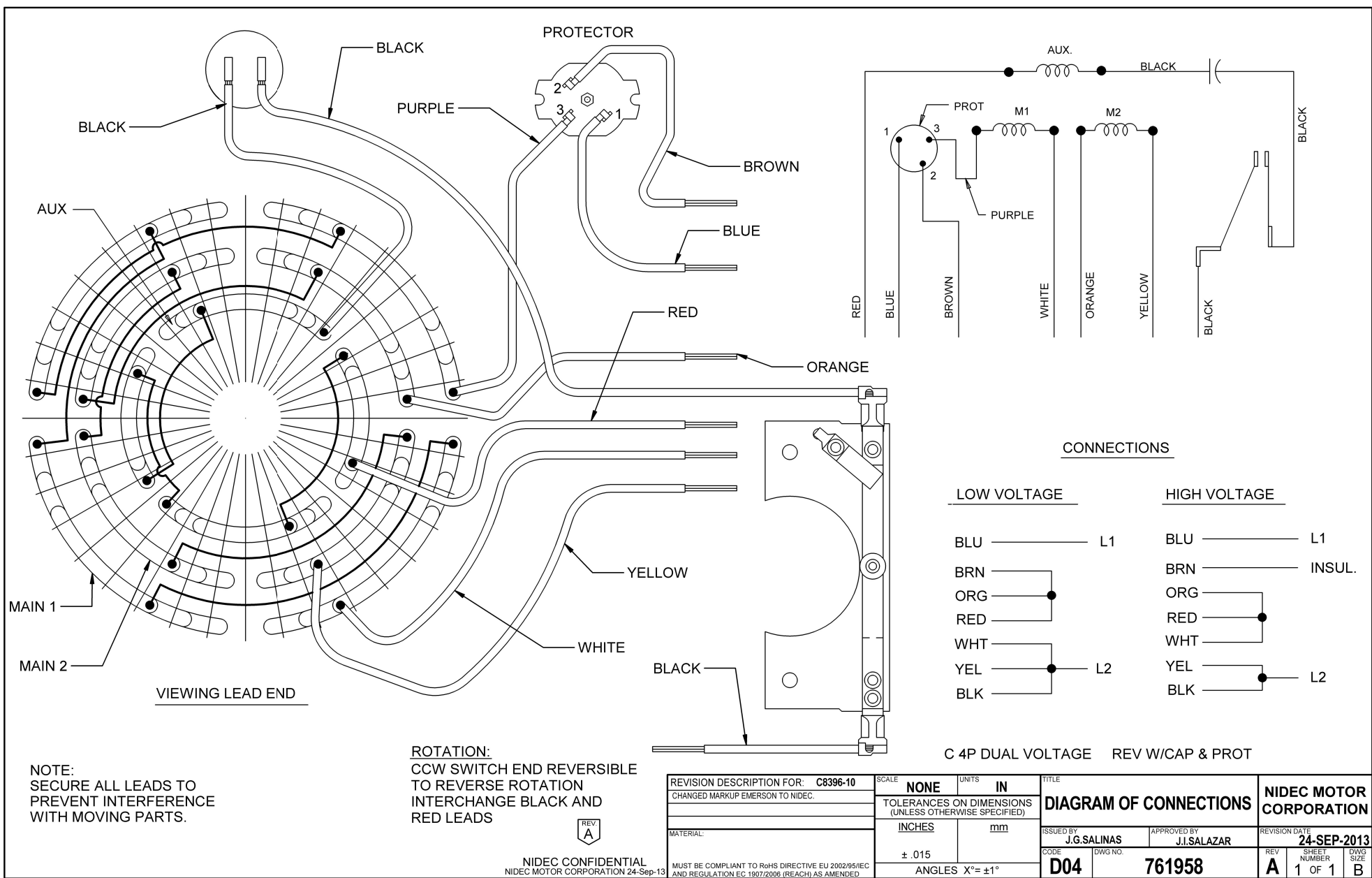
2 DRAIN HOLES AND PLUGS ON LE ENDSHIELD
NAMEPLATE (OPPOSITE SIDE)
90°
B
2.062 ±.031
1.880
KEYWAY .188 X 1.440
.517
4.500 +.000 / -.003
.6250 .6245
.004 A
WATER SLINGER
MANUAL RESET PROTECTOR
46° 44°
PUSH TO RESET
9.10
6.50
5.875 ±.005 B.C. DIA.
4.88
FROM CENTER OF .344 DIA. SLOT
4 HOLES 3/8-16 UNC-2B THREAD TAP .750 DEEP
REV. C

A ±.060
3.00
2.56
.344 DIA SLOT
1.250
SLOT DETAIL (4)
±.004 A
DRAIN HOLE AND PLUG REQUIRED BOTH ENDS
KNOCKOUT .875 DIA. HOLE
WARNING LABEL (OPPOSITE SIDE)

CONNECTIONS
LOW VOLTAGE
BLU — L1
BRN — INS
RED — INS
ORG — INS
WHT — L2
YEL — L2
BLK — L2
HIGH VOLTAGE
BLU — L1
BRN — INS
RED — INS
ORG — INS
WHT — L2
YEL — L2
BLK — L2
ROTATION CCW LE.
TO REVERSE ROTATION
INTERCHANGE RED & BLK LEADS

NIDEC MOTOR CORPORATION 13-Jun-18
ECO E31432
CHANGED SCREW VIEW TO S05820750 (SCREW WITHOUT SLOT).
ISSUED BY: G. ISASSI
ENGINEER APPROVED: J. SALINAS
TOLERANCES ON DIMENSIONS (UNLESS OTHERWISE SPECIFIED)
INCHES
.XX = ±.010
.XXX = ±.005
mm
ANGLES X° = ±1°

NIDEC MOTOR CORPORATION
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REVISION DATE: 04-JUL-18
TITLE: CUSTOMER DETAIL DRAWING
CODE: V02
ITEM NO.: 811627
REV: C
SHEET NUMBER: 1 OF 6
DWG SIZE: B



Special Application Agriculture Totally Enclosed Fan Cooled (TEFC) Agri Duty High Torque Single Phase, Capacitor Start



APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists.
High torque motors are used on barn cleaners, manure pumps and silo unloaders.

FEATURES:

- Class F Insulation (140-210 Frame)
- 40°C Ambient, Continuous Duty
- Reversible Rotation
- F1 Assembly
- Steel Frames & Steel Welded Based (140-210 Frame)
- Manual Reset Thermal Overload Protector
- Steel Fan Cover & Conduit Box
- Non-Regreasable Double Shielded Bearings
- Shaft Slinger (140-210 Frame)
- Capacitor Start-Capacitor Run (3-10 HP)
- Low Temperature Grease

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56	FD13CM2P	\$278	DS-3FMP	1.15	10.9	25	6.6/3.3	23
1/2	1800	115/230	56	FD12CM2P	\$324	DS-3FMP	1.15	11.4	27	9.0/4.5	23
3/4	1800	115/230	56	FD34CM2P	\$384	DS-3FMP	1.15	11.9	32	11.4/5.7	23
1	1800	115/230	143T	FD1CM2P14	\$684	DS-3F	1.15	12.8	32	15.0/7.5	23
	1800	115/230	56H	FD1CM2PZ	\$439	DS-3FMP	1.15	12.9	40	14.0/7.0	23
1 1/2	1800	115/230	145T	FD32CM2P14	\$473	DS-3SP	1.15	14.3	43	16.2/8.1	23
	1800	115/230	56H	FD32CM2PH	\$468	DS-3FMP	1.15	13.9	32	16.2/8.1	23
2	1800	115/230	182T	FD2CM2P18	\$779	DS-3SP	1.00	15.2	60	23.6/11.8	23
	1800	115/230	56HZ	FD2CM2PHZ	\$639	DS-3FMP	1.00	14.3	50	20.0/10.0	23
3	1800	230	184T	FD3CM2K18	\$1,045	DS-3SP	1.00	17.2	74	14.5	23
5	1800	230	184T	FD5CM2K18	\$1,307	DS-3SP	1.00	18.2	125	22.0	23
	1800	230	213T	FD5CM2K21	\$1,442	DS-3SP	1.00	19.6	180	23.0	23
7 1/2	1800	230	215T	FD7CM2K21	\$1,937	DS-3SP	1.00	22.1	147	30.0	23
10	1800	230	215T	FD10CM2K21	\$2,380	DS-3SP	1.00	22.1	180	38.0	23

C-Face Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56C	FD13CM2PC	\$370	DS-3FMP	1.15	10.9	21	6.6/3.3	23
1/2	1800	115/230	56C	FD12CM2PC	\$375	DS-3FMP	1.15	11.4	26	9.0/4.5	23
3/4	1800	115/230	56C	FD34CM2PC	\$447	DS-3FMP	1.15	11.9	30	11.4/5.7	23
1	1800	115/230	56HC	FD1CM2PHC	\$503	DS-3FMP	1.15	12.9	35	14.0/7.0	23
1 1/2	1800	115/208-230	56HC	FD32CPM2PHC	\$599	DS-3FMP	1.15	13.9	32	14.4/8.3-7.2	23
2	1800	115/230	145TC	FD2CM2PHC	\$704	DS-3FMP	1.15	14.4	32	18.9/9.4	23

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56C	FD13CM2PCR	\$360	DS-3FMP	1.15	10.9	21	6.6/3.3	23
1/2	1800	115/230	56C	FD12CM2PCR	\$360	DS-3FMP	1.15	11.4	32	9.0/4.5	23
3/4	1800	115/230	56C	FD34CM2PCR	\$437	DS-3FMP	1.15	11.9	32	11.4/5.7	23
1	1800	115/230	56C	FD1CM2PCR	\$493	DS-3FMP	1.15	12.9	44	14.0/7.0	23
1 1/2	1800	115/230	56C	FD32CM2PCR	\$589	DS-3FMP	1.15	13.9	44	16.2/8.1	23

Note 23 Manual Reset Thermal Protector Overload