

## MTHW & MTBHW (MTHC & MTBHC)

**Note:** Cet addenda doit être utilisé en conjonction avec le manuel d'Installation et d'Instruction fourni avec l'opérateur.

Des opérateurs conçus pour résister aux éclaboussures de liquide ou conçus pour les lave-autos, sont fabriqués avec des moteurs électriques TFV ou TFNV incluant une station à 3 boutons NEMA4/12 ou NEMA4X étanche à l'eau et à l'huile.

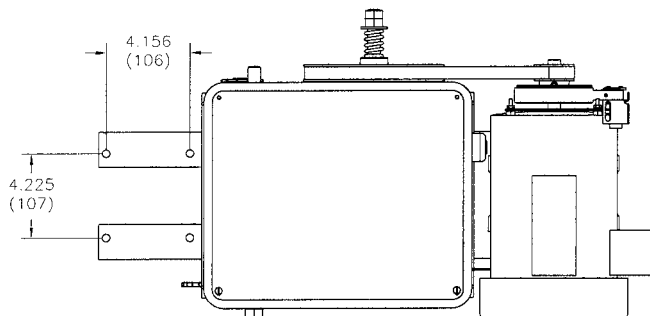
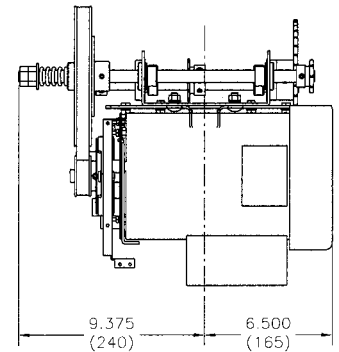
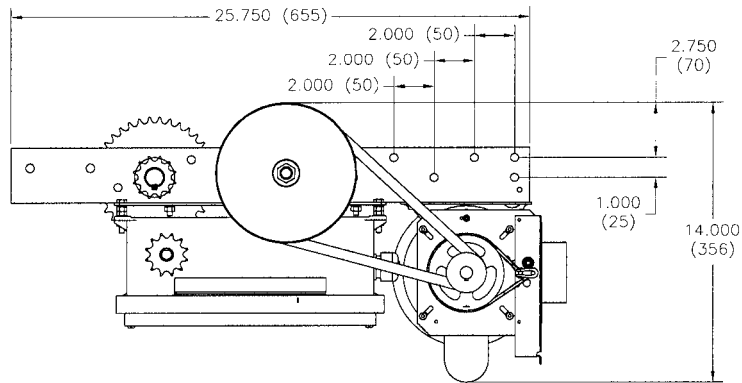
Pour des informations générales, référez-vous au manuel d'Installation et d'Instruction fourni avec l'opérateur



## FICHE TECHNIQUE

## GÉNÉRALITÉS

TENSION D'ALIMENTATION.....	115, 230 V c.a monophasée, 208, 460, 575V c.a triphasée
TENSION DE COMMANDE.....	24VAC transformateur de classe 2, fusible 2 A, de type ACG
MOTEUR.....	Service continu 1/3, 1/2, 3/4, 1 CV
VITESSE DE SORTIE.....	123 RPM
POIDS.....	90 Lbs (41 Kg) pour MTBHW - 1/2HP 115V
CÂBLAGE STANDARD.....	C2- contact momentané pour l'ouverture et l'arrêt et pression constante pour la fermeture

DIMENSIONS  
(MTBHW)

## MISE EN GARDE

**AFIN DE RÉDUIRE LES RISQUES DE BLESSURES GRAVES OU DE MORT, LISEZ ET SUIVEZ TOUTES LES INSTRUCTIONS D'INSTALLATION FOURNIES AVEC L'OPÉRATEUR.**

### • CONDUITS (TUYAUX) ET ACCESSOIRES POUR LA BOÎTE DE CONTRÔLE

Comparer aux boîtes des contrôles NEMA1, les boîtes de contrôles NEMA4/12 ou NEMA4X ne sont pas fournies pré-perçées pour les branchements du câble d'alimentation ou pour tous autres accessoires. Tous les perçages des trous nécessaires pour les montages doivent être effectués par les clients.

#### • Conduits et accessoires:

Utilisez toujours des conduits et des accessoires flexibles, non-métalliques et étanches à l'eau et à l'huile pour ces applications. Servez-vous des outils ou des scies précises et appropriées pour réaliser les trous. En insérant le conduit dans les accessoires, assurez-vous le gland de presse-étoupe est correctement compressée ou l'enveloppe du conduit n'est pas coupée ou déchirée nulle part pour éviter des fuites.

**NOTE:** Pour la préparation des conduits, suivez les instructions du fabricant et utilisez des matériaux conformes aux normes NEMA



### AVERTISSEMENT

**L'OPÉRATEUR DOIT ÊTRE CORRECTEMENT BRANCHÉ À LA TERRE À L'AIDE DU CONNECTEUR DE MISE À LA TERRE SITUÉE À L'INTÉRIEUR DE LA BOÎTE DE CONTRÔLE DE L'OPÉRATEUR.**

### • RÉCEPTEUR RADIO

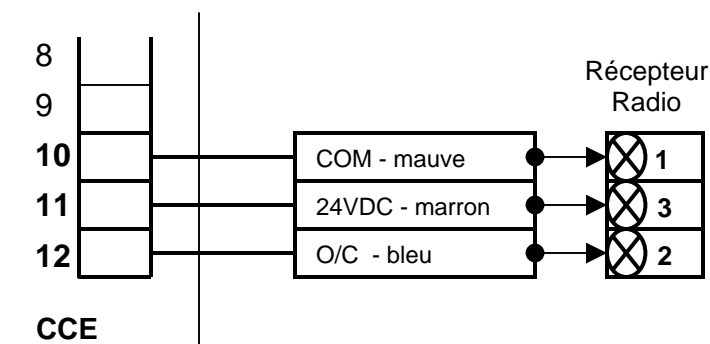
Dans des applications NEMA4/12 ou NEMA4X, le bornier de raccordement n'est pas disponible sur le côté de la boîte de contrôle. Dans le cas d'un circuit électromécanique, le récepteur radio doit être branché directement sur le bornier principal. Pour le Circuit de Contrôle Électronique, des borniers appropriés sont disponibles sur la plaquette électronique pour le branchement du récepteur radio.

**Le Récepteur Radio doit être localisé dans un endroit isolé ou protégé pour éviter d'être endommagé causé par la filtration d'eau.**

Référez-vous aux schémas ci-dessous pour les branchements du Récepteur radio

### CIRCUIT DE CONTRÔLE ÉLECTRIQUE

#### Partie de CCE: en bas - Bornier (TB2)



Instructions pour les branchements

Apartir de CCE	Sur Récepteur Radio
#COM	#1 (24 VOLTS)
#O/C	#2 (RELAY)
#24 V	#3 (COM OU GROUND)

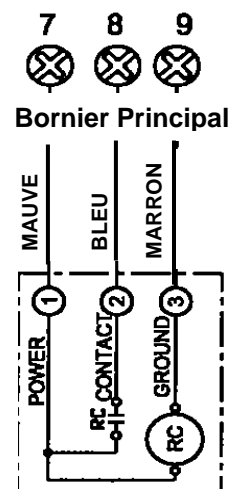
### CIRCUIT ÉLECTROMÉCANIQUE

Instruction pour les branchements

Apartir du bornier principal	Sur Récepteur Radio
# 7 (COM)	#1 (24 VOLTS)
#8 (O/C)	#2 (RELAY)
#9 (24 V)	#3 (COM OU GROUND)

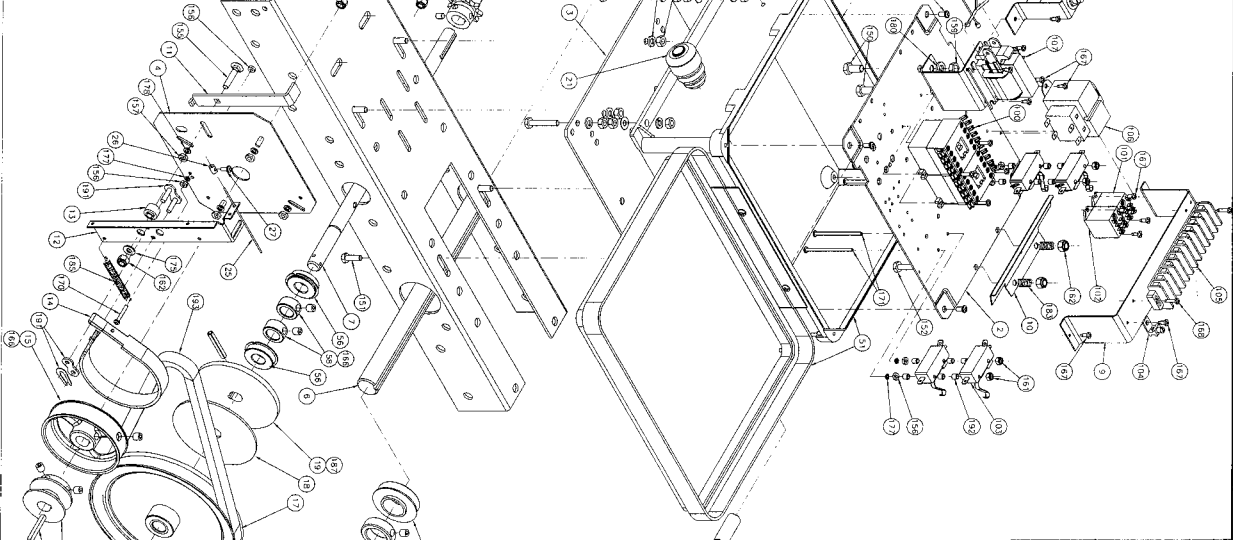
#### NOTE IMPORTANTE:

Pour le modèle MCR-32, référez-vous à la fiche technique fournie avec le récepteur.



QTY	DESCRIPTION	#MANASS	REV
1	STD. BOX 14" X 10" OPEN	MANASS019	A
1	WRENCH 1/2"	MANASS020	A
1	8-20SC LIQUID TIGHT TUBING	MANASS021	A

PARTS IDENTIFICATION NOT SHOWN



QTY	DESCRIPTION	#MANASS	REV
179	LOCK WASHER 1/4"	WASHER026	
180	LOCK WASHER 5/16"	WASHER028	
181	KEY 3/16 X 1 1/2 (C/W MOTOR)	NKC13	
182	KEY 1/4 X 2"	SPRIND009	
183	SPRING C-260-047-1080	SPRIND009	
184	SPRING C-67-155-15	SPRIND026	
185	SPRING E-318-42-1.8	SPRIND026	
186	COTTER PIN 1/8 X 1 1/2	PNND07	
187	SPRING PIN 3/16 X 1 1/2	CHAND20	
188	CHAIN 41350 50 X 1.0 LO	CHAND20	
189	CHAIN 410	CHAND20	
190	CONNECTING LINK	LINK011	
191	CONNECTING LINK	LINK011	
192	LIMIT SWITCH SPACER	SPACER001	
193	V-BELT	VBELT030	

#	QTY	DESCRIPTION	#MANASS	REV
1	1	FRAME IN BOX W/75"	FRAM014	E
2	1	BOX 9 1/2"	PLATE079	C
3	1	BRK PLATE	PLATE038	C
4	1	LMV SHAFT	PLATE075	C
5	1	M-M-H-M-A-4-1/2 DRIVE SHA-1	SHAFT064	A
6	1	INPUT SHAFT	SHAFT080	B
7	1	WRENCH BOX SOLENOID SUPPORT	SHAFT080	B
8	1	SOLENOID	SOLENOID	A
9	1	SOLENOID BRACKET	SOLENOID	A
10	1	SOLENOID BRACKET N-1	SOLENOID	A
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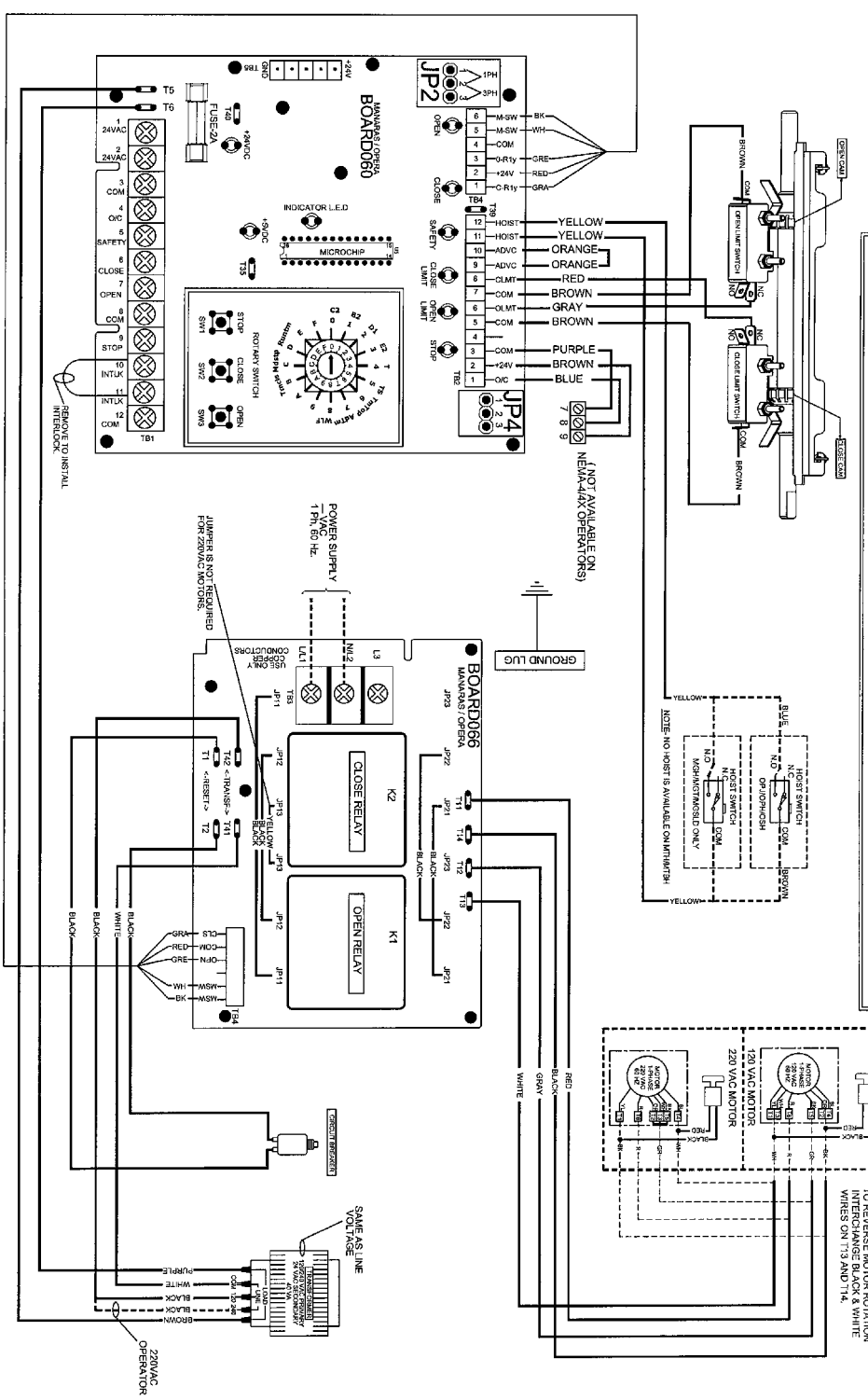
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 MANASS AUTO DOORS INC.  
 136 ONEDA DRIVE 198 148  
 TOWN 514-426-1332  
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 FAX 514-426-1171

# Schema électrique simple phase CCE

WIRING DIAGRAM FOR 1-PHASE OPERATOR- MODEL : MTHMTBMHGMHGMGTMSL/D/OP/JIOP/HOSH



## EXTERNAL WIRING

LINE POWER	EXTERNAL INTERLOCK	SAFETY REVERSE	OPEN/CLOSE COMMAND	SINGLE PUSH-BUTTON STATION	TWO PUSH-BUTTON STATION
L1 1 N1.2 24 VAC POWER 1 2 23 VAC POWER MOTION DETECTOR APPLICABLE TO DA NMA	10 11 FACTORY INSTALLED JUMPER REMOVE IF EXTERNAL LOCK IS USED.	3 5 CONTACT FOR SAFETY EDGE/SAFETY DEVICE	3 4 CONTACT FOR OPEN/CLOSE DEVICE	6 7 8 9 NOTE: PLACE A JUMPER BETWEEN TERMINALS 6 AND 8. IF STOP BUTTON IS NOT USED.	6 7 8 9 P.B. SW1 P.B. SW2

Pour la connexion du récepteur radio référer à la page 3

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TITLE: WIRING DIAGRAM, 120/208/220VAC, 1-PHASE (Nema-4)

MANARAS/OPERA 9140-0720 QUEBEC INC.

158 ONÉDIA DRIVE  
 TONNEAU-QUÉBEC, QC H9R 1A8  
 TEL: 514-426-4330  
 FAX: 514-426-4330

## ROTARY SWITCH SETTINGS

WIRING TYPES	PROGRAM SETTINGS
1 B2 WIRING 	6 MID-STOP TIMER TO CLOSE 
2 D1 WIRING 	7 ADV. CLOSE TIME 
3 WIRING 	8 WARNING LIGHT TIMER 
4 T WIRING 	B TIMER TO CLOSE 
5 TS WIRING 	C MID-STOP 
ON BOARD JUMPER SETTINGS JP2 1 2 3 240VAC/1PH 1.2 220VAC OPERATOR	D RUN TIMER 

WARNING LIGHT/RECEIVER MODULE

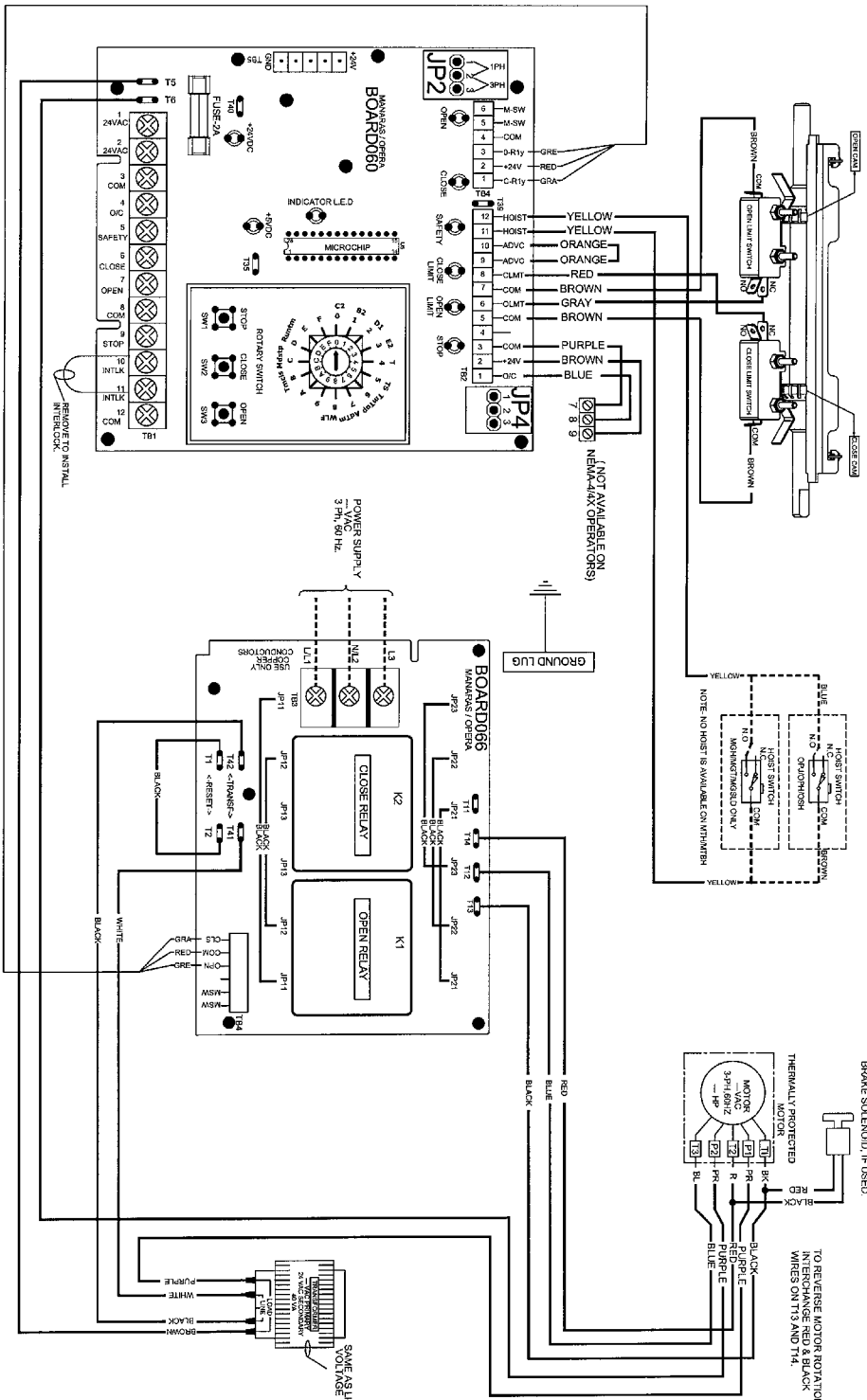
CONNECTION FOR WARNING LIGHT AND RECEIVER MODULE. (CONSULT FACTORY)

NOTE:  
 FOR ROTARY SWITCH SETTINGS AND PROGRAMMING PROCEDURES, REFER TO INSTRUCTION MANUAL.



# Schema électrique 3- phase CCE

WIRING DIAGRAM FOR 1-PHASE OPERATOR - MODEL : MTH/MTB/MGH/MGT/MGSLD/OP/PH/OSH



## ROTARY SWITCH SETTINGS

WIRING TYPES	PROGRAM SETTINGS
0 C2 WIRING A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12	6 MID-STOP TIMER TO CLOSE A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12
1 R2 WIRING A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12	7 ADV. CLOSE TIME A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12
2 D1 WIRING A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12	8 WARNING LIGHT TIMER A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12
3 E2 WIRING A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12	B TIMER TO CLOSE A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12
4 T WIRING A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12	C MID-STOP A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12
5 TS WIRING A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12	D RUN TIMER A 0 1 2 B 3 4 5 C 6 7 8 D 9 10 11 E 12

## ON BOARD JUMPER SETTINGS

208/480/575 VAC	2,3	JP2	1,2,3	JP4 (ON/CONNECT)	1,2,3
				JP4 (OFF/DISCONNECT)	1,2,3

## WARNING LIGHT/RECEIVER MODULE

TB5 CONNECTION FOR WARNING LIGHT AND RECEIVER MODULE (CONSULT FACTORY)

## NOTE:

FOR ROTARY SWITCH SETTINGS AND PROGRAMMING PROCEDURES, REFER TO INSTRUCTION MANUAL.

## EXTERNAL WIRING

LINE POWER	EXTERNAL INTERLOCK	SAFETY REVERSE	OPEN/CLOSE COMMAND	SINGLE PUSH-BUTTON STATION	TWO PUSH-BUTTON STATION
L1,1 N1,2 L3 POWER SUPPLY 3 Ph, 60 HZ	1 2 24 VAC POWER FACTORY INSTALLED JUMPER REMOVE IF EXT. INTERLOCK IS USED.	3 5 CONTACT FOR SAFETY REVERSE/SAFETY DEVICE	3 4 OPEN/CLOSE FOR SAFETY DEVICE	9 8 7 6 NOTE: PLACE A JUMPER BETWEEN TERMINALS 9 AND 8 IF STOP BUTTON IS NOT USED.	7 8 P.B. S#1 P.B. S#2

Pour la connexion du récepteur radio référer à la page 3

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TITLE: WIRING DIAGRAM, 208/480/575VAC, 3- PHASE (Nema-4)

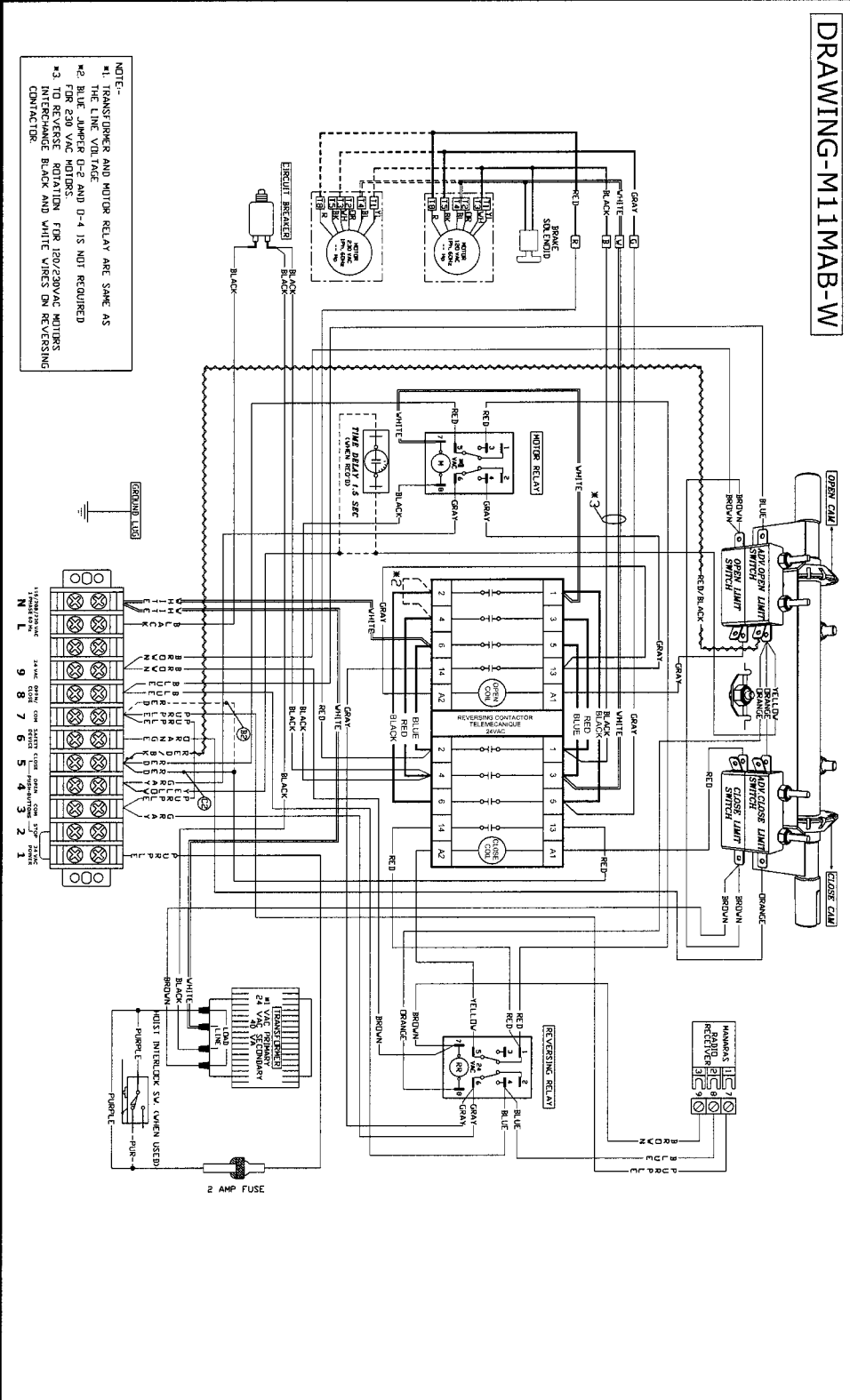
KNOWN BY: BP

DATE: 13 NOV 2003 CAD FILE: B63.T1N3 REV DATE: 13 FEB 2007

MANARAS/OPERA 9140-0720 QUEBEC INC.  
336 ONTARIO DRIVE  
POINT-CLAIR, QC H8R 1A8  
TEL: 1-800-361-0908  
FAX: 1-800-326-0608

# Schéma électrique simple phase Circuit Électromécanique

## DRAWING-M11MAB-W



NOTE:  
 #1. TRANSFORMER AND MOTOR RELAY ARE SAME AS THE LINE VOLTAGE.  
 #2. BLUE JUMPER D-2 AND D-4 IS NOT REQUIRED FOR 230 VAC MOTORS.  
 #3. TO REVERSE ROTATION FOR 120/230VAC MOTORS INTERCHANGE BLACK AND WHITE WIRES ON REVERSING CONTACTOR.

LINE POWER	24 VAC POWER	EXTERNAL INTERLOCK	SAFETY REVERSE	OPEN/CLOSE COMMAND	PUSH-BUTTON STATION	TWO PUSH-BUTTON STATION	RADIO CONTROL
1 N	1 9	1 2	3 6	7 8	2 3 4 5	2 3 4 5	
POWER SUPPLY 115/200/230 VAC 50/60 Hz	24 VAC FINDER AVAILABLE IOWA MAK	FACTORY INSTALLED JUMPER REMOVE IF EXT. INTERLOCK IS USED	CONTACT FOR SAFETY EMERGENCY DEVICE	CONTACT FOR OPEN/CLOSE DEVICE	STOP	STOP	

ATTENTION- USE 18AWG OR HIGHER FOR WIRING ALL EXTERNAL CONNECTIONS

NOTE- PLACE A JUMPER BETWEEN TERMINAL 2 AND TERMINAL 3 IF STOP BUTTON IS NOT USED

Pour la connexion de récepteur à la page 3

**1 ON SITE MODIFICATIONS**

NOTE: (C) / (B2)

C2 ↔ B2

**1A** REMOVE THE RED WIRE WITH RAPID CONNECTOR FROM TERMINAL #5, AND TRANSFER IT TO TERMINAL #7.

B2 ↔ C2

**1B** REMOVE THE RED WIRE WITH RAPID CONNECTOR FROM TERMINAL #7, AND TRANSFER IT TO TERMINAL #5.

**WARNING:**

MOTORISED DOORS CAN CAUSE SERIOUS INJURIES OR DEATH. MANARAS STRONGLY RECOMMENDS THE USE OF ENTRAPMENT PROTECTION SYSTEMS, ESPECIALLY IN THE CASES OF MOMENTARY CONTACT TO CLOSE AS IN B2 WIRING OR TIMER TO CLOSE.

**2 CONSTANT PRESSURE OPEN**

1. REMOVE THE GRAY WIRE FROM TERMINAL #3 AND PLACE IT ON TERMINAL #4

**3 WIRING FOR INSTANT STOP (ON SAFETY EDGE OR DEVICE)**

1. REMOVE THE YELLOW WIRE FROM ADV. OPEN LIMIT SWITCH, AND CAP IT.  
 2. REMOVE THE BLUE WIRE FROM PIN #4 OR REVERSING RELAY(R) AND CAP IT.

**4 ADDING A TIME DELAY ON REVERSE**

ADV. OPEN L.S. (ON SAFETY EDGE OR DEVICE)

1. REMOVE THE YELLOW WIRE FROM ADV. OPEN LIMIT SWITCH, CONNECT THIS WIRE TO ONE END OF THE COIL. REVERSE L.S. (ON SAFETY EDGE OR DEVICE)

2. REMOVE THE BLUE WIRE FROM ADV. OPEN LIMIT SWITCH, CONNECT THIS WIRE TO THE OTHER END OF THE COIL.

T.D. MODULE

CONSTANT PRESSURE OPEN & CLOSE - DI

PERFORM THE MODIFICATION EXPLAINED IN THE NOTES. **1B** **2** AND **3**

ANY OTHER OPTIONS

FOR ANY OTHER OPTIONS LIKE: TIMER TO CLOSE, MID-STOP WIRING, LONG DISTANCE MODULE, OR ANY OTHER SPECIAL LOGIC SEQUENCE, PLEASE CONSULT MANARAS AT 1-800-561-2280 / 1-800-471-2328 (USA).

**6 WIRING DIAGRAM FOR M/MCS/MT/MTH 120/230 VAC, 1 PHASE MOTORS**

PROJECT: M11MAB-W

CLIENT: M11MAB-W

ENGINEER: M11MAB-W

DISTRIBUTOR: M11MAB-W

M.F.D. BY: MANARAS AUTO DOORS, INC.

DATE: 14 OCT 2004

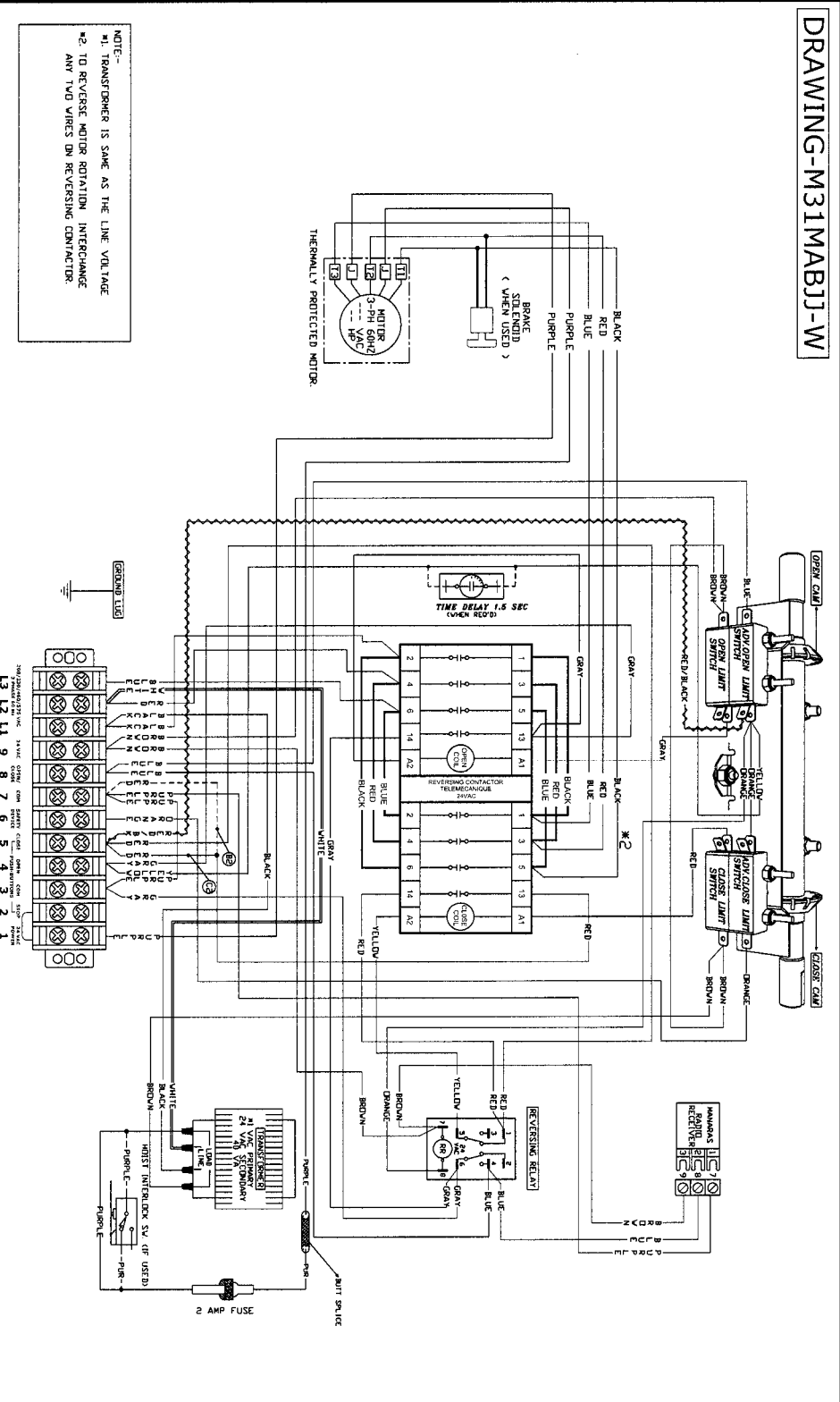
REV: C

DES: C



# Schéma électrique 3-phase Circuit Électromécanique

## DRAWING-M31MABJ-W



NOTE:  
 #1- TRANSFORMER IS SAME AS THE LINE VOLTAGE  
 #2- TO REVERSE MOTOR ROTATION INTERCHANGE ANY TWO WIRES ON REVERSING CONTACTOR

LINE POWER	L1 L2 L3	24 VAC POWER	1 9	EXTERNAL INTERLOCK	1 2	SAFETY REVERSE	3 6	OPEN/CLOSE COMMAND	7 8	PUSH-BUTTON STATION	2 3 4 5	TWO PUSH-BUTTON STATION	2 3 4 5	RADIO CONTROL	2 3 4 5
	POWER SUPPLY 200/230V/460/575 VAC 3 PH, 60 HZ	24 VAC POWER AVAILABLE INVA MAX		FACTORY INSTALLED JUMPER REMOVE IF EXT INTERLOCK IS USED		CONTACT FOR SAFETY EDGE/SAFETY DEVICE		CONTACT FOR OPEN/CLOSE DEVICE		NOTE- PLACE A JUMPER BETWEEN TERMINAL 2 AND TERMINAL 3 IF STOP-BUTTON IS NOT USED					

ATTENTION- USE 18AVG OR HIGHER FOR WIRING ALL EXTERNAL CONNECTIONS

Pour la connexion de récepteur radio référer à la page 3

### 1 OW SITE MODIFICATIONS

- NOTE (C) (B) C2 ↔ B2  
 REMOVE THE RED WIRE WITH RAPID CONNECTOR FROM TERMINAL #7, AND TRANSFER IT TO TERMINAL #7.  
 B2 ↔ C2

- 1B REMOVE THE RED WIRE WITH RAPID CONNECTOR FROM TERMINAL #7, AND TRANSFER IT TO TERMINAL #5.

### WARNING:

MOTORIZED DOORS CAN CAUSE SERIOUS INJURIES OR DEATH. MANARAS STRONGLY RECOMMENDS THE USE OF ENTRAPMENT PROTECTION SYSTEMS, ESPECIALLY IN THE CASES OF MOMENTARY CONTACT TO CLOSE AS IN B2 WIRING OR TIMER TO CLOSE.

- 2 CONSTANT PRESSURE OPEN
- 3 1. REMOVE THE GRAY WIRE FROM TERMINAL #3 AND PLACE IT ON TERMINAL #4  
 WIRING FOR INSTANT STOP (ON SAFETY EDGE OR DEVICE)  
 1. REMOVE THE YELLOW WIRE FROM ADV. OPEN LIMIT SWITCH AND CAP IT.  
 2. REMOVE THE BLUE WIRE FROM PIN #4 OR REVERSING RELAY(R) AND CAP IT.

- 4 ADDING A TIME DELAY ON REVERSE  
 ADV. OPEN 1.5  
 1. REMOVE THE YELLOW WIRE FROM THIS WIRE TO ONE END OF THE TIME-DELAY SWITCH.  
 2. FROM OTHER END OF THE TIME-DELAY SWITCH, BACK TO OPEN OPEN YELLOW.
- 5 CONSTANT PRESSURE OPEN & CLOSE- DI  
 PERFORM THE MODIFICATION EXPLAINED IN THE NOTES, 1B 2 AND 3

- 6 ANY OTHER OPTIONS  
 FOR ANY OTHER OPTIONS LIKE, TIMER TO CLOSE, MID-STOP WIRING, LONG DISTANCE SEQUENCE, OR ANY OTHER SPECIAL WIRING AT 1-866-561-2880/1-866-57-6732(USA)

WIRING DIAGRAM FOR M/MSJ/MT/MTB  
 208/460/575 VAC, 3 PHASE MOTORS

TITLE	DES	REV	DATE
M31MABJ-W	BP	C	14. OCT. 2004

PROJECT: CLIENT: ENGINEER: DISTRIBUTOR: MFD. BY: MANARAS AUTO DOORS INC.

