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MDA COMPACTION

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Company / customer

Drawing number EP_SBK-010-600

Manufacturer (company) MDA COMPACTION

Project name BULLPAK BALER
WITH SECURITY PACK

Contened of document ELECTRICAL WIRING

Responsible for project

Created on 2008.07.10

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MOTOR 10HP=MODEL SERIE P
MOTOR 5HP SERIE M
MOTOR 2HP / 3HP=MODEL SERIE B
POWER UNIT

SUPPLY
600 VAC

L1
L2
L3

TEW 12
BLACK
L1

TEW 12
BLACK
L2

TEW 12
BLACK
L3

MOTOR
CONTACTOR
SC1
L1 T1
L2 T2
L3 T3
(430)

OVERLOAD
OL1
1 2
3 4
5 6
(430)
(331)

W1
4x12 AWG

W1
4x12 AWG

M1
T1
T2
T3
M
3~
GND

W1
4x12 AWG

TEW 12
BLACK
1

TEW 12
BLACK
3

F1-F2
CHCC2
LP-CC-0.8
2
4

H1
H2

XFO
600VAC / 120VAC 150VA

TEW 18-16
RED
1

X1
X2

GND

TEW 18-16
WHITE
N

1 F3
CHCC1
FUSE 1.5 AMPS
LP-CC-1.5
2

TEW 18-16
RED
2

TBCP-120
2

TEW 18-16
RED
2

EMERGENCY STOP
AU1
1 2
(316)
(314)

TEW 18-16
RED
4

TBCP-120
4

TEW 18-16
RED
4

4
(425)

PS1
POWER SUPPLY 24 VDC
INPUT 120 VAC
L
N
GND
V+
V-
V-
OUTPUT 24 VDC

TEW 18-16
RED
2

TEW 18-16
WHITE
N

TBCP-120
2

(303) / 24V

0V / (304)

TBCP-120
N

TEW 18-16
RED
2

2
(401)

N
(402)

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INPUT
TM221CE16R

TEW 18-16 BLUE 24V → 24V / (233)

TEW 18-16 BLUE 0V ← (415) / 0V ← TBCP-24 0V

TEW 18-16 BLUE 0V → 0V / (233)

PRESSURE SWITCH ANALOG

TBCP-24 24V → W2 white 4x22 AWG → 1

TBCP-24 AN+ → W2 4x22 AWG → 2

TBCP-24 AN- → W2 4x22 AWG blue → 3

0 - 10 V

IFM

24V:

0V:

TEW 18-16 BLUE 0V → COM:

BLACK → AI0: analog

RED → AI0:

TEW 18-16 BLUE I0 ← (538) / I0

I0:

TEW 18-16 BLUE 24V → EMERGENCY STOP AU1 3 4 → TEW 18-16 BLUE I1 → I1:

(224) (316)

EMERGENCY STOP AU1 1 2 → 24V-5 / (504)

(224) (314)

TEW 18-16 BLUE 24V → ACTION PB1 3 4 → TEW 18-16 BLUE I2-5 → TEW 18-16 BLUE I2 → I2:

(411)

LOADING DOOR CODED MAGNET

(519) / I3 ← TBCP-24 I3 ← TEW 18-16 BLUE I3 → I3:

TBCP-24 24V → W2 6x24 AWG RED → DOOR LOCK BE1 → W2 6x24 AWG BLUE

EJECT DOOR CODED MAGNET

(531) / I4 ← TBCP-24 I4 ← TEW 18-16 BLUE I4 → I4:

TEW 18-16 BLUE 24V → OVERLOAD OL1 97 98 → TEW 18-16 BLUE I5 → I5:

(204)

I6:

WARNING ONLY INSTALL MODE

TBCP-24I 24V

INSTALL MODE INSERT JUMP CYLINDER RETRACTED ← TBCP-24I I7 ← TEW 18-16 BLUE I7 → I7:

INSTALL MODE INSERT JUMP CYLINDER EXTENDED ← TBCP-24I I8 ← TEW 18-16 BLUE I8 → I8:

24V (409)

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OUTPUT
TM221CE16R

L: TEW 18-16 RED 2 ← 2 (239)

N: TEW 18-16 WHITE N → TBCP-120 N ← N (239)

GNR: TEW 14-41 GREEN → GND

COM0: TEW 18-16 BLUE 24V → 24V / (339)

Q0: TEW 18-16 BLUE Q0 → LIGHT BUTTON PB1 (x1, x2, ORANGE (318)) → TEW 18-16 BLUE 0V

(538) 24V → W2 6x24 AWG BROWN → TBCP-24 24V

Q1: TEW 18-16 BLUE Q1 → TBCP-24 Q1 → W2 6x24 AWG ORANGE → DOOR LOCK BE (A1, A2, B1)

W2 6x24 AWG BLACK → TBCP-24 0V → 0V / (304)

0V (513)

Q2:

Q3: TEW 18-16 BLUE Q3 → SYSTEM READY LT2 (x1, x2, GREEN) → TEW 18-16 BLUE 0V

4 (228) → TEW 18-16 RED 4 → TBCP-120 4

COM1:

Q4: TEW 18-16 RED Q4 → Q4 / (532)

(532) / Q4-1 → OVERLAOD OL1 (96, 95) (204) → TEW 18-16 RED 3 → CONTACTOR MOTOR SC1 (A1, A2)

TEW 18-16 WHITE N

21 22 (516)
L1 T1 (204)
L2 T2 (205)
L3 T3 (206)

2 HAND PUSH BUTTON BP2

Q5: TEW 18-16 RED Q5 → 1, 2 (502) → Q5-1 / (534)

(534) / Q5-2 → TBCP-120 Q5-2 → W6 3x18 AWG BLACK → VALVE EXTENDED CYLINDER SVA (x1, x2) → W6 3x18 AWG WHITE → TBCP-120 N

Q6: TEW 18-16 RED Q6 → Q6 / (536)

(536) / Q6-1 → TBCP-120 Q6-1 → W7 3x18 AWG BLACK → VALVE RETRACTED CYLINDER SVB (x1, x2) → W7 3x18 AWG WHITE → N

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OPTION BULLPEN
BULLPEN CODED MAGNET

2 HAND PUSH BUTTON

BLACK — WHITE — TBCP-AU 22-5 — BP2 3 4 (434)

YELLOW — GREEN — TBCP-AU 24-5 — BP2 3 4

RED → 24V /

BLUE → 0V / (507) — TBCP-AU 24

TBCP-AU 23

24V-5 (316)

0V (506)

TEW 18-16 BLUE 24V-5 — CS1 A1

TEW 18-16 BLUE 0V — A2

TEW 18-16 BLUE 22 — S11

TEW 18-16 BLUE 23 — S12

TEW 18-16 BLUE 0V — S21

TEW 18-16 BLUE 0V — S22

TEW 18-16 BLUE 24 — S52

LOADING DOOR CODED MAGNET

Allen Bradley Guard master

PINK — TBCP-AU 28 — 1 2

BLUE — TBCP-24 0V

GREY — TBCP-AU 29

0V (416)

RED

YELLOW

BROWN

WHITE → I3 / (322)

1 2

TEW 18-16 BLUE 26 — 21 SC1 (430) 22 — TEW 18-16 BLUE 27 — ACTION BP1 3 4 — S34

EJECT DOOR CODED MAGNET

TBCP-AU 31

TBCP-AU 30

Allen Bradley Guard master

PINK

BLUE

GREY

RED — TBCP-24 24V

YELLOW

BROWN

WHITE → I4 / (327)

TEW 18-16 RED Q4 — Q4 / (430) — 13 14 — TEW 18-16 RED Q4-1 — Q4-1 / (430)

TEW 18-16 RED Q5-1 — Q5-1 / (434) — 23 24 — TEW 18-16 RED Q5-2 — Q5-2 / (435)

TEW 18-16 RED Q6 — Q6 / (438) — 33 34 — TEW 18-16 RED Q6-1 — Q6-1 / (439)

TBCP-24 24V — (413) / 24V

TEW 18-16 BLUE 24V — 41 42 — I0 / (310)

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Terminal line-up diagram

part number					
Mounting rail		partition	Strip label	End angle rear	end plate
terminal					
part number	Type number	partition	terminal label	jumper	cover
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					

TBCP-24

AN+	
AN-	
0V	
0V	
0V	
24V	
24V	
24V	
24V	
24V	
I3	
I4	
Q1	

Terminal line-up diagram

F12_001_en_us

part number					
Mounting rail		partition	Strip label	End angle rear	end plate
terminal					
part number	Type number	partition	terminal label	jumper	cover
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					

TBCP-120

	N	
	N	
	N	
	2	
	2	
	4	
	4	
	Q5-2	
	Q6-1	

ePLAN electric P8	Project name: EP_SBK-010-600	Drawing number:	Customer: MDA COMPACTION	Modification	Date	Name		Date	Name	Original:	TERMINALS BLOCK TBCP-120	Higher-level function: =	Mounting location: +
							Ed	2008.07.10		Approved by:			
		Customer code:					Appr	2024.09.26	Blapierre	Checked by:	Commission: ???	Page group: 9	Page: 7
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Terminal line-up diagram

F12_001_en_us

part number					
Mounting rail		partition	Strip label	End angle rear	end plate

terminal					
part number	Type number	partition	terminal label	jumper	cover
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					
EBOR-0001					

TBCP-AU

'	22-5	
'	23	
'	24	
'	24-5	
'	28	
'	29	
'	30	
'	31	

Terminal line-up diagram

F12_001_en_us

part number					
Mounting rail		partition	Strip label	End angle rear	end plate
terminal					
part number	Type number	partition	terminal label	jumper	cover
EBOR-0001					
EBOR-0001					
EBOR-0001					

TBCP-24I

	I7	
	24V	
	I8	