

16607 Cobot Case Packer with Palletizer SLD (Single Line Diagram)

Objective :-

- SLD shows the rating & capacity of electrical equipment & Protection device.
- SLD is Blue Print for Electrical system Analysis.
- To Ensure a safer & more reliable operatoin of the facility.
- Positions of electrical components & co-relate to BOM.
- Co-relate SLD to GA Drawing & detailed Drawing.

Legend:

ES1201	Chasiss E-Stop
GZ1301	Safety Scanner 1
GZ1302	Safety Scanner 2
PX	Proximity Sensor
SC	Servo Motor
f	14 or 18 Wire Gauge Servo Cable
IPC	Industrial PC
i	2 Core X 0.5 sqmm (24 V Supply)
PE6901	Pallet Presence Eye 1
PE6902	Pallet Presence Eye 2
RO6303	Cobot for Shipper Placing on the Case Erector

Legend:

(M)	Motor
(PE)	Photoelectric Sensor
(GZ)	Safety Scanner/Guards switch
(ES)	Emergency Switch
(RO)	Robot / Cobot
(SV)	Solenoid Valve
(SW)	Isolation Switch
(CY)	Pneumatic Cylinder
a	4 Core X 2.5 sqmm
b	M8 4pin connector 10 m
c	4 Core X 1.5 sqmm
d	3 Core X 1.5 sqmm (230V supply)
e	RJ45 Ethernet Cable
g	2 Core X 0.5 sqmm Cable
h	M12, 4 pin Connector 10M
MO2701	Tilting Conveyor Motor
PE1401	Shipper Magazine Low level detect Eye
PE1601	Shippers Empty detect Eye
PE2701	Top Tape Low Level
PE2301	Product Detect @ Stopper
PE2302	Product Detect @ clamp
PE2303	Product Detect @ topple
PE2304	Product Detect @ topple1
A1PE2501	Shipper Presence @ Pickhead 1
PE6501	Shipper Presence @ Shipper Placing Conveyor
PE4201	Bottom Tape Low level Detect
PE6401	Matrix Present on Collation unit
PE6601	Shipper Presence @ Palletizer Infeed
PE6602	Shipper Full @ Palletizer Infeed
PE5301	Shipper Detect @ Rejection convey.1
PE5302	Shipper Detect @ Rejection convey. 2
PE3401	Shipper Presence @ Labelling Conveyor
A2PE2501	Shipper Presence @ Pickhead 2
PE6501	Shipper Presence @ Shipper Placing Conveyor
MO1401	Magazine Motor
MO2301	Infeed Conveyor
MO3401	Labelling Conveyor motor
MO6601	Palletizer Infeed conveyor motor
SC2501	Shipper Forming support Servo Motor
A1SV2501&2	Vacuum Generator 1 & 2
RO6301	Cobot for bottles
RO6302	Cobot for Palletizer
ES1001	Operator Control Panel E-Stop
ES1002	Control Panel E-Stop

