80LP-113LP CONNECTION DIAGRAMS

Connection diagrams for drum motor cable connection 80LP - 113LP

Colors or lead numbers for standard turning direction clockwise.

TP - Thermal protector T1 & T2

Color code
bk - black
bn - brown
rd - red
og - orange
ye - yellow
gn - green
bu - blue
vt - violet
gy - grey
wh - white

3-Ph motor dual voltage with TP

High Voltage

3-Ph motor single voltage with TP
80LS-165LS CONNECTION DIAGRAMS

Connection diagrams for drum motor
cable connection 80LS - 165LS
ELB - only single voltage

Lead numbers for standard turning
direction clockwise.
TP - Thermal protector T1 & T2
ELB - Electromagnetic brake B1 & B2

Color code
gn - green
ye - yellow
bu - blue
bn - brown

- **3-Ph motor**
  - Dual voltage with TP
  - Lead numbers for standard turning direction clockwise.

- **1-Ph motor**
  - With TP & ELB optional for 138LS & 165LS only

- **3-Ph motor**
  - Single voltage with TP &
    - 9 leads
    - Lead 4, 5, 6 not used
    - Use lead 4 for internal ELB only!

- **3-Ph motor**
  - Single voltage with TP & ELB
    - Lead 4 not used

- **3-Ph motor**
  - Single voltage with TP &
    - 6 leads
    - Lead 4 not used

- **3-Ph motor**
  - Single voltage with TP & ELB
    - Lead 4 not used
113LS - 220H CONNECTION DIAGRAMS

Connection diagrams for drum motor
Terminal box with WAGO clamp 113LS - 220H (ELB only single voltage)

Characters in brackets for 2 stage gearbox turning direction clockwise.

TP - Thermal protector T1 & T2
ELB - Electromagnetic brake B1 & B2

Color code
RD - Red
YE - Yellow
BK - Black
GY - Grey
BU - Blue
GN - Green
WH - White
BN - Brown

Assembly instruction
Push down clamp
Push in cable
Release clamp

3-Ph motor
dual voltage
with TP

3-Ph motor
dual voltage
with TP & ELB

3-Ph motor
single voltage
with TP

3-Ph motor
single voltage
with TP & ELB

1-Ph motor
with TP

1-Ph motor
with TP & ELB

Cr - Run capacitor
Cs - Start capacitor

Cr - Run capacitor
Cs - Start capacitor
220M - 220H CONNECTION DIAGRAMS

Connection diagrams for drum motor
Cable connection 220M - 220H

Lead numbers for turning direction clockwise.

TP - Thermal protector T1 & T2
ELB - Electromagnetic brake

Color code
GN - Green
YE - Yellow

3-Ph motor
dual voltage with TP

3-Ph motor
dual voltage with TP & ELB

1-Ph motor
with TP & ELB optional

3-Ph motor
single voltage with TP & ELB

Lead 8 not used
Lead 6 not used
EXTERNAL CONNECTION DIAGRAMS
FOR DRUM MOTORS 5.5 KW

Terminal Box
5.5 kW

Low voltage - Δ

High voltage - Y

Electromagnetic Brake Configuration

3-phase single voltage
5.5 kW

USA - Configuration