LEGEND

Selection of electrical connections according to mains voltage available and compressor nameplate specifications.

Attention ! Compressor are protected by thermistors, connect thermistors only at terminals 1 and 2 of module A1. Do not connect mains voltage. See diagram !
Maximum thermistor test voltage 3V. Cold resistance of thermistors ≤ 750 Ω.

Fans are thermal-protected.
Direct On Line or Star–Delta Start (Y/Δ)   - K2 and K3 only with Star–Delta Start (Y/Δ)
Direct On Line or Star (Y) Part Winding Start   - K4 Only with Star (Y) Part Winding Start
Direct On Line (use bridges / jumpers)

Recommended Control Circuit
A1 = Electronic Module for M1
A2 = Oil Differential Pressure Switch
A3 = Capacitor and Relay Assembly
A5 = Terminal Box Compressor
A6 = Electronic Module DEMAND COOLING
A7 = Terminal Box Condensing Unit
B1 = Room Thermostat
C1 = Run Capacitor M2
C2 = Run Capacitor M1
C3 = Start Capacitor M1
F1 = Fuse for Control Circuit
F3 = Pressure Control Switch
F31 = Pressure Cut-Out
F32 = Safety Pressure Cut-Out
F10 = Thermal Protection Switch M2
F11 = Overcurrent Thermal Protector
F12 = Thermal Protection Switch M3
H1 = Signal Lamp A1
H2 = Signal Lamp A2

H3 = Signal Lamp A6 DEMAND COOLING
H4 = Signal Lamp F3 - Discharge pressure too high
H5 = Signal Lamp F3 Suction pressure too low
K1 = Contactor M1
K2 = Y–Contactor M1
K4 = Contactor M1 for second Part Winding
K5 = Contactor M2
K51 = Contactor M21
K52 = Contactor M22
K55 = Contactor M3
K11 = Time Delay Relay 1…..3s for Y/Δ Start
K12 = Time Delay 1s ± 0.1 for Part Winding Start
K14 = Time Delay for Unloaded Start
M1 = Compressor Motor
M2 = Fan Motor / Condenser
M21= Fan Motor / Condenser
M22= Fan Motor / Condenser
M3 = Motor Cylinder Head Cooling
N1 = Speed Control Fan
Q1 = Main Switch

R2 = Crankcase Heater
X1 = Terminal Block
Y21 = Solenoid Valve Capacity Control 1
Y22 = Solenoid Valve Capacity Control 2
Y3 = Solenoid Valve Unloaded Start M1
Y4 = Solenoid Valve for Inter-Stage Liquid Line
Y5 = Solenoid Valve for Liquid Injection
Y6 = Solenoid/ Injection Valve DEMAND
COOLING

Cable Colours:
WH - White
GY - Grey
BK - Black
BN - Brown
BU - Blue
RD - Red
OG - Orange
Green / Yellow