

RIGHT FROM
THE START

LV Drive Packages

380–480 V
5,5–500 kW

AuCom
MOTOR CONTROL SPECIALISTS

A member of the
Benshaw Group



BENSHAW
Applied Motor Controls

Switch cabinet solution with built-in Variable Frequency Drive

READY TO CONNECT WITH INPUT AND OUTPUT CONNECTION POINTS FOR EASY INSTALLATION

LCD DISPLAY WITH KEYPAD LOCATED ON THE DOOR FOR QUICK AND SIMPLE PROGRAMMING AND MONITORING OF OPERATIONAL STATUS

SEAMLESS INTEGRATION INTO EXISTING EMERGENCY CHAIN

Input Voltage: 380–480 V AC (-15 % to +10 %)
 Input Frequency: Three-Phase 50–60 Hz (+/-5 %)
 Output Voltage: 3-Phase 0–480 V
 Output Frequency: 0–400 Hz (V/Hz, Slip Compensation)
 Output Current: 1–962 A
 Output Power: 5.5–500 kW
 Control Voltage: 110/230 V AC / 110V DC
 Cabinet Color: RAL 7035
 Operating temperature range: -10 °C–40 °C
 Relative humidity: Less than 95 % RH to prevent condensation
 Storage Temperature: -20 °C–65 °C
 Vibration: Less than 1.0 G (9.8 m/sec²)
 Pressure: 70–106 kPa
 Noise level: <66 dBA for AF / <71 dBA for AC
 Altitude: Maximum 1,000 m above sea level for standard operation, with derating for higher altitudes
 Frequency (Speed) Settings: Analog and digital input options available
 Frequency setting: Digital command 0.01 Hz
 Frequency Accuracy: 1 % of maximum output frequency
 Dual Rating: Normal Duty 120 % OL/1 min. and Heavy Duty 150 % OL/1 min.
 Pulse train: 0–30 kHz, Low Level: 0–0.8 V, High Level: 3.5–12 V

SOFTWARE FEATURES

Quick Start Menu on Power Up, Control - V/Hz, Sensorless Vector Control, Slip Compensation, Auto Tuning, Macro Selection – Pump, Fan, or Constant Torque, Torque Limits, PID Control, Regen Avoidance, Kinetic Energy Buffering (KEB), Ride Through, Decel Brake Control Upgrade your control system with our comprehensive VFD integrated solution for efficient and precise motor control

PROTECTION FUNCTIONS

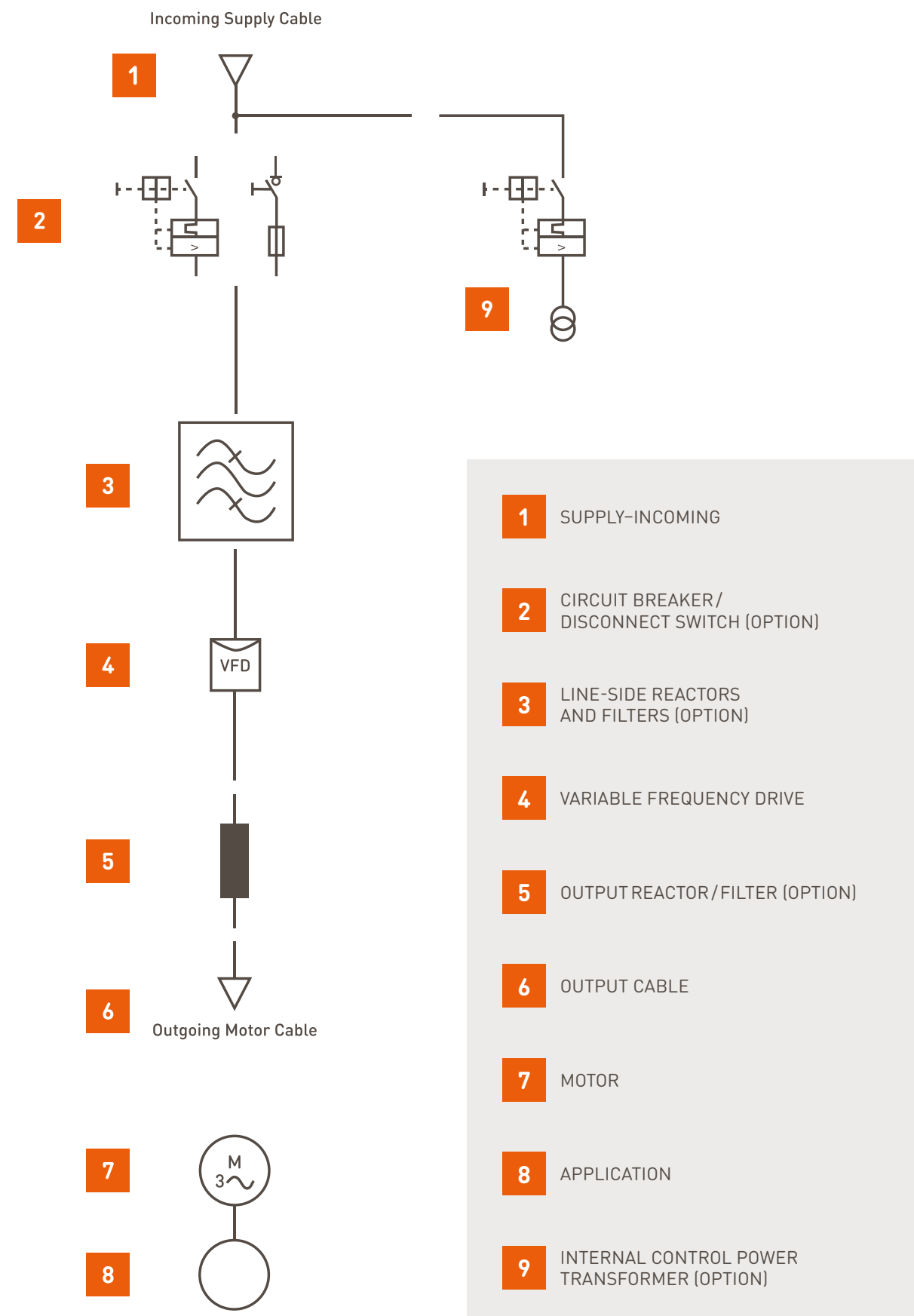
Motor Over Load, Fan Trip, Under Load, Internal Fan Trip, Over Current 1, Motor Over Heat (PTC Input), Over Voltage, Lost Keypad, Low Voltage, Fuse Open, Pipe Broken, Ground Fault, Broken Belt, E-Thermal, Lost Speed Reference, Out Phase Open, I/O Board Trip, In Phase Open, Inverter Over Load

OPERATION FUNCTIONS

Quick Start Menu, Sensorless Vector Control, Start/Stop Operation, IM and PM motors, Start/Stop Modes, Auto Tuning, Frequency Reference Sources, Torque Limits, Auxiliary Frequency Reference, PID Control, Multi-Step Speeds, Slip Compensation, Multi-Step Accel/Decel, Times Event Timer (RTC), 2nd Source (HOA), Energy Save Mode, Accel/Decel Times, Regen Avoidance, Accel/Decel Patterns, VFD Fan Control, Dwell Frequency Operation, Jog, Auto Start, Timer Relay Input/Output Function, Auto Reset/Restart, Pre Heat, Jog and Jog Start, Oil Pump Starter Control, FWD/REV Run Prevention, Damper Monitor and Control, Frequency Limits, Jump Frequencies, 3-Wire Control, Ride Through (KEB), Fire Mode, Safe Stop, Speed Search

ALARM FUNCTIONS

Overload/underload, Lost Command, Inverter overload, DB (braking) rate



ORDERCODE (LV-D-C-400-...)	DESCRIPTION	AUCOM QUICK & SAFE	AUCOM QUICK & SAFE+	AUCOM FULL CONTROL	AUCOM FULL CONTROL+
Motor current	Power Rating 380–480 V 3 phase Current (max. cross section)	5,5–30 kW ≤ 61 A (35 mm²)	≤ 90 kW ≤ 169 A (185 mm²)	≤ 250 kW ≤ 481 A (Busbar)	≤ 500 kW ≤ 962 A (Busbar)
	Cabinet Size (H x W x D in mm) (incl. 100 mm base frame) ¹	1200 x 600 x 400 (wall mounting)	2100 x 800 x 600	2100 x (1400–2000) x 600	2100 x (2400–4000) x 800
AF/AC	Cooling unit Air flow (AF) Air conditioner (AC)	AF	AF/AC	AF/AC	AF/AC
30/54/55/56	Protection code	30/54/55/56	30/54/55/56	30/54/55/56	30/54/55
B/T	Cable input ²	Bottom/Top	Bottom/Top	Bottom/Top	Bottom/Top
00/CB/DS	Circuit breaker (CB)	Option	Option	–	–
	Disconnect switch with fuses and doorhandle (DS)	–	–	Option	Option
0/1	EMC filter	C2	C2	C2	C2
00/HF/LR	Harmonic filter (HF)	–	–	Option	Option
	Line reactor (LR)	–	Option	Option	Option
00/LR/SF	Load reactor (LR)	–	Option	Option	Option
	Sinus filter (SF)	–	–	Option	Option
0/1	Internal control power transformer	Option	Option	Option	Option
00/MB/BN/PB/PN	Communication module	Modbus RTU (MB) BACnet (BN)	Modbus RTU (MB) Profibus (PB) Profinet (PN)	Modbus RTU (MB) Profibus (PB) Profinet (PN)	Modbus RTU (MB) Profibus (PB) Profinet (PN)
00/06/12/18	RTD module	0/6 inputs	0/6/12/18 inputs	0/6/12/18 inputs	0/6/12/18 inputs
0/1	Feeder for motor space heater	Option	Option	Option	Option
0/1	Powermeter	Option	Option	Option	Option
0/1	Analog speed potentiometer	Option	Option	Option	Option
0/1	2-channel safety relay	Option	Option	Option	Option
0/1	Cabinet light	Option	Option	Option	Option
0/1	Cabinet heater	Option	Option	Option	Option
0/1	Cabinet socket	Option	Option	Option	Option

¹ Width may vary depending on options selected

² IP56 cable input bottom only

PUT YOUR ORDERCODE HERE

LV - D - C - 400 - - - - - - - - - - - - - - - - - -

Example LV-D-C-400-0325-AC-30-B-DS-1-LR-SF-0-PB-12-1010-100



A high-tech power-electronics company at the forefront of design. Leading edge designs based on continuous field research, testing and development.

Comprehensive range of Soft Starter: Low Voltage and Medium Voltage units for standard and heavy-duty applications. Engineering of industrial electronic motor control systems.

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