





Catalog #: 20DC022A0EYNANANE

20D, 22 A at 11 kW, 400V AC Three-Phase, IP20/NEMA/UL 1, Ph II Ctrl - Expanded Cassette, Future Use, No HIM - Blank Plate, No Communication Module, W/ EMC Filt & ComModeChoke, Brake IGBT Installed, No Internal Brake Resistor, Size 1 Frame, Ph II Ctl, No DriveLogix, English Documentation

Lifecycle status: Fim do ciclo de vida

Rockwell Automation announces that as of June 30, 2023, the 20D, 22 A at 11 kW, 400V AC Three-Phase, IP20/NEMA/UL 1, Ph II Ctrl - Expanded Cassette, Future Use, No HIM - Blank Plate, No Communication Module, W/ EMC Filt & ComModeChoke, Brake IGBT Installed, No Internal Brake Resistor, Size 1 Frame, Ph II Ctl, No DriveLogix, English Documentation will be discontinued and no longer available for sale. Customers are encouraged to remove references to the affected product(s).

June 30, 2023

Discontinued Date:

Replacement Category: Engineering Replacement
Produto de reposição: PowerFlex 750 family

[https://www.rockwellautomation.com/pt-br/products/details.PowerFlex 750 family.html]

# **Technical Specifications**

#### Mechanical

Degree of protection (IP)	IP20
Shock	10 G peak for 11 ms duration (±1.0 ms)
PWM frequency	4 kHz @ 540V DC
Vibration	0.152 mm (0.006 in.) displacement, 1 G peak, 5.5 Hz

#### Electrical

Number of analogue outputs	2
Mains voltage	400 V
Integrated breaking resistance	No
Max. output voltage	932 V
Internal dynamic brake resistors	115 Ohm
DC bus overvoltage trip	810V DC @ 380/400V
DC nominal bus voltage	540V DC @ 380/400V

Brake IGBT	Brake IGBT installed
Internal communication module	No communication module
Fuse current rating	40 A @ 540V DC
Input voltage rating	400V AC, 3-phase, 50 Hz
Displacement power factor	0.98 across speed range
Output current, continuous	22 A @ 540V DC
Output current, 1 min	24.2 A @ 540V DC
Output current, 3 sec	33 A @ 540V DC
Circuit breaker current rating, max	80 A @ 400V AC, 3-phase
Motor circuit protector current rating, max	30 A @ 400V AC, 3-phase
Logic control ride-thru	0.25 seconds, drive not running
Brake resistor	No internal brake resistor
Input current rating	24 A @ 540V DC
Rated power rating	7.5 kW @ 540V DC, heavy duty
Documentation	English documentation
Carrier frequency	Drive rating: 4 kHz, settings: 2, 4, 6, 8, 10 kHz (6 kHz is for V/Hz operation only)
AC input overvoltage trip	600V AC @ 380/400V (six pulse, 3-phase)
Input power rating	14.3 kVA @ 400V AC, 3-phase
Electronic motor overload protection	Class 10 motor overload protection according to NEC article 430 and motor over-temperature protection according to NEC article 430.126 (A)(2). UL 508C file E59272
Dual element time delay fuse current rating	3045 A @ 400V AC, 3-phase
Non-time delay fuse current rating	3080 A @ 400V AC, 3-phase
Heat sink thermistor	Monitored by microprocessor overtemperature trip
Drive to motor power ratio, max	The drive to motor rating cannot exceed a 2:1 ratio
Stop modes	Multiple programmable stop modes including – Ramp, Coast, and Current Limit
Acceleration/deceleration	Independently programmable accel and decel times adjustable from 0 to 6553.5 in 0.1 second increments
Number of digital inputs	6
Number of digital outputs	2
Number of analogue inputs	3
Motor voltage, nom	383V @ 380400V drive rating, 400V nominal line voltage

Additional configuration Phase I control  Max. output frequency 400 Hz  Line voltage, norm 400 Hz  Line voltage, norm 400 Hz  Mains frequency 50 Hz  Internal EMC filtering With EMC filter & common mode choke  Watt loss 389 W ex 400 V AC, 11 kW normal duty, 7,5 kW heavy duty  Feedback option Future use  Brive full power range 333, 528 V ex 380, 400 V drive rating, 383 V nominal motor voltage  Drive operating range 325, 528 V ex 380, 400 V drive rating, 383 V nominal motor voltage  Torque regulation Torque regulation without feedback: ±5%, 600 rad/sec bandwidth  Enclosure type 1P20/NEMA/ULType 1  Output current rating 22 amps, 11 kW normal duty, 7,5 kW heavy duty, frame 1  Control options Phase for motor voltage and triple voltage and programmable triple voltage and triple voltage full rating for all drives and provides full rating for all drives and provides full rating for all drives and provides for voltage to the Power First XOS Phase input provides for voltage to the Power First XOS Phase input provides for voltage to the Power First XOS Phase input provides for voltage to the Power First XOS Phase input provides for voltage tolerance 10 % Control method voltage tolerance 10 % Control reference manual, public Norted phases input and voltage tolerance 10 % Control reference manual, public Norted voltage tolerance 10 % Control reference manual, public Norted voltage tolerance 10 % Control reference manual public Norted voltage tolerance 10 % Control reference manual pub	Human interface model	No HIM (no blank plastic inserted)
Line voltage, nom  400V # 380_400V drive rating, 383V nominal motor voltage  Mains frequency  50 Hz  Internal ENC filtering  With EMC filter & common mode choke  Watt loss  389 W # 400V AC, 11 kW normal duty, 7.5 kW heavy duty  Feedback option  Future use  Drive full power range  383_528V # 380_400V drive rating, 383V nominal motor voltage  Drive operating range  325_528V # 380_400V drive rating, 383V nominal motor voltage  Torque regulation  Torque regulation - without feedback: ±5%, 600 rad/sec bandwidth  Enclosure type  (P2D/NEMA/UL Type 1  Output current rating  22 amps, 11kW normal duty, 7.5 kW heavy duty, frame 1  Control options  Phase II control, expanded cassette  Drive overcurrent trip  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated emps, nominal line volts  Speed control  Speed control  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Fill of oriented control with and without a feedback device and permanent magnet motor control  full oriented control with and without a feedback device and permanent magnet motor control  full oriented control with and without a feedback device and permanent magnet motor control  full oriented control with and without a feedback device and permanent magnet motor control  full oriented control with and without a feedback device and permanent magnet motor control  full oriented control with and without a feedback device and permanent magnet motor control  control method  Control method  3	Additional configuration	Phase II control
Mains frequency 50 Hz  Internal EMC filtering With EMC filter's common mode choke Watt loss 388 W @ 4000 AC, 11 kW normal duty, 7.5 kW heavy duty Feedback option Future use Drive full power range 383.528 W @ 3804009 drive rating, 3839 nominal motor voltage Drive operating range 385528 W @ 3804009 drive rating, 3839 nominal motor voltage Torque regulation Torque regulation — without feedback: £5%, 600 rad/sec bendwidth Enclosure type IP20/NEMA/UL Type 1  Output current rating 22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options Phase II control, expanded cassette  Drive overcurrent trip drive rated current Efficiency 97.5% at rated amps, nominal line valts  Speed control Speed scross 120:1 speed range, 120:1 operating range, 50 rad/sec bendwidth  Field oriented current bring trated current  Field oriented current without feedback: 0.1% of base speed scross 120:1 speed range, 120:1 operating range, 50 rad/sec bendwidth  Field oriented current without feedback: 0.1% of base speed scross 120:1 speed range, 120:1 operating range, 50 rad/sec bendwidth  Field oriented control with and without a feedback device and permianent magner motor control  Field oriented control with and without a feedback device and permianent magner motor control  Field oriented control with and without a feedback device and permianent magner motor control  Control method  Field oriented control with and without a feedback device and permianent magner motor control  Control method  Control method  Torque regulation — without feedback in the programmable carrier frequency, indirect set organized, field-oriented control, current-regulated, acting spop) to all drives, refer to the Power filer 700S Phase II control reference manual, public  Number of phases output  A Number of phases input  Field oriented control word reference manual, public	Max. output frequency	400 Hz
Internal EMC filtering With EMC filter & common mode choke Watt loss  \$88 W @ 400V AC, 11 kW normal duty, 7.5 kW heavy duty Feedback option Future use  Drive full power range  \$383\$28V @ 380400V drive rating, 383V nominal motor voltage  Drive operating range  \$325\$28V @ 380400V drive rating, 383V nominal motor voltage  Torque regulation Torque regulation - without feedback: \$5%, 600 rad/sec bandwidth  Enclosure type  \$120 NEMA/UL Type 1  Output current rating  \$20 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options  Phase II control. expanded cassette  Drive overcurrent trip  \$50 fewere current limit: 105% of motor rated to 200% of drive rated current  Efficiency  \$75.% at rated amps, nominal line volts  Speed control  \$50 rad/sec bandwidth  Current limit capability Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with end without a feedback device and permanent magnet motor control  Field oriented control with end without a feedback device and permanent magnet motor control  Input phases  Control method  Control method  Control method  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current current graphs of phases and cannot represent the powerfiex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Hopper frequency, max  400 Hz	Line voltage, nom	
Feedback option  Future use  383528V @ 380400V drive rating, 383V nominal motor voltage  Drive operating range  325528V @ 380400V drive rating, 383V nominal motor voltage  Drive operating range  325528V @ 380400V drive rating, 383V nominal motor voltage  Torque regulation  Torque regulation - without feedback: ±5%, 600 rad/sec benewidth  Enclosure type  IP20/NEMA/UL Type 1  Dutput current rating  22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options  Phase II control, expanded cassette  Drive overcurrent trip  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed control  Speed regulation - without feedback: 0.1% of base speed ucross 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Selectable motor control  Field oriented centrol without a feedback device and permanent magnes motor control  Input phases  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented centrol, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases input  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Mains frequency	50 Hz
Feedback option Future use  383528V @ 380400V drive rating, 383V nominal motor voltage Drive operating range 325528V @ 380400V drive rating, 383V nominal motor voltage Torque regulation Torque regulation Torque regulation Torque regulation Passell control, expanded cassette  Drive overcurrent triting 22 amps, 11 kW normal duty, 7,5 kW heavy duty, frame 1  Control options Phase II control, expanded cassette  Drive overcurrent trip Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency 97.5% at rated amps, nominal line volts  Speed centrol Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bendwidth  Durrent limit capability Independent motoring and regenerative power limits programmable to 800% of rated output current  Effect of ender control Field oriented control with and without a feedback device and permanent magner motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control reteretore test organized, field-oriented control provides 50% of rated current  Control method  Torque regulation - without feedback and permanent magner motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Unduction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Hought frequency, max	Internal EMC filtering	With EMC filter & common mode choke
Drive full power range  383528V @ 380400V drive rating, 383V nominal motor voltage  Drive operating range  325528V @ 380400V drive rating, 383V nominal motor voltage  Torque regulation  Torque regulation - without feedback: £5%, 600 rad/sec bandwidth  Enclosure type  IP20/NEMA/UL Type 1  Output current rating  22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options  Phase II control, expanded cassette  Drive overcurrent trip  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed control  Speed regulation - without feedback: 0.1% of base speed across 1201 speed range, 120:1 operating range, 50 rad/sec bandwidth  Lurrent limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Sk-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Number of phases input  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max	Watt loss	389 W @ 400V AC, 11 kW normal duty, 7.5 kW heavy duty
Drive operating range  325528V @ 380400V drive rating, 383V nominal motor voltage  Torque regulation  Torque regulation - without feedback: ±5%, 600 rad/sec bandwidth  Enclosure type  IP20/NEMA/UL Type 1  Output current rating  22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options  Phase II control, expanded cassette  Drive overcurrent trip  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed control  Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Sk-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase il control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Feedback option	Future use
Torque regulation Torque regulation - without feedback: ±5%, 600 rad/sec bandwidth  Enclosure type IP20/NEMA/UL Type 1  Output current rating 22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options Phase II control, expanded cassette  Drive overcurrent trip Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency 97.5% at rated amps, nominal line volts  Speed control Speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFiex 700S Phase II control reference manual, public  Number of phases output 3  Relative symmetric net voltage tolerance Input frequency, max 400 Hz	Drive full power range	
beandwidth  Enclosure type  IP20/NEMA/UL Type 1  Output current rating  22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1  Control options  Phase II control, expanded cassette  Drive overcurrent trip  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed control  Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max	Drive operating range	
Output current rating 22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1 Control options Phase II control, expanded cassette  Drive overcurrent trip Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency 97.5% at rated amps, nominal line volts  Speed control Speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability Independent motoring and regenerative power limits programmable to 800% of rated output current  Selectable motor control Field oriented control with and without a feedback device and permanent magnet motor control  Input phases Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output 3  Number of phases input 3  Relative symmetric net voltage tolerance 10 %  Input frequency, max 400 Hz	Torque regulation	
Control options  Phase II control, expanded cassette  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Selectable motor control  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Number of phases input  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max	Enclosure type	IP20/NEMA/UL Type 1
Drive overcurrent trip  Software current limit: 105% of motor rated to 200% of drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Selectable motor control  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Number of phases input  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Output current rating	22 amps, 11 kW normal duty, 7.5 kW heavy duty, frame 1
Drive overcurrent trip  drive rated current  Efficiency  97.5% at rated amps, nominal line volts  Speed control  Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Control options	Phase II control, expanded cassette
Speed control  Speed regulation - without feedback: 0.1% of base speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Drive overcurrent trip	
Speed control  speed across 120:1 speed range, 120:1 operating range, 50 rad/sec bandwidth  Current limit capability  Independent motoring and regenerative power limits programmable to 800% of rated output current  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Efficiency	97.5% at rated amps, nominal line volts
Selectable motor control  Field oriented control with and without a feedback device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Number of phases input  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Speed control	speed across 120:1 speed range, 120:1 operating range,
Selectable motor control  device and permanent magnet motor control  Six-pulse, 3-phase input provides full rating for all drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output  3  Relative symmetric net voltage tolerance  10 %  Input frequency, max  400 Hz	Current limit capability	
Input phases drives, single-phase operation provides 50% of rated current  Induction motor and brushless motor: sine coded PWM with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output 3  Number of phases input 3  Relative symmetric net voltage tolerance 10 %  Input frequency, max 400 Hz	Selectable motor control	
Control method with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S Phase II control reference manual, public  Number of phases output 3  Number of phases input 3  Relative symmetric net voltage tolerance 10 %  Input frequency, max 400 Hz	Input phases	drives, single-phase operation provides 50% of rated
Number of phases input 3  Relative symmetric net voltage tolerance 10 %  Input frequency, max 400 Hz	Control method	with programmable carrier frequency, indirect self organized, field-oriented control, current-regulated, ratings apply to all drives, refer to the PowerFlex 700S
Relative symmetric net voltage tolerance 10 %  Input frequency, max 400 Hz	Number of phases output	3
Input frequency, max 400 Hz	Number of phases input	3
	Relative symmetric net voltage tolerance	10 %
Output frequency range 0 Hz	Input frequency, max	400 Hz
	Output frequency range	0 Hz

DC bus undervoltage trip	Adjustable
Output voltage range	0 to rated motor voltage
Power ride-thru	15 milliseconds at full load
S-curve time	Adjustable 0.54.0 seconds
Short circuit trip	Phase-to-phase on drive output
Ground fault trip	Phase-to-ground on drive output
Control logic noise immunity	Showering arc transients upto 1500V peak
Line transients	Up to 6000 volts peak per IEEE C62.41-1991
Intermittent overload	110% overload capability for up to 1 minute, 150% overload capability for up to 3 seconds
Short circuit current, max	Using recommended fuse or circuit breaker type: maximum short circuit current rating to match specified fuse/circuit breaker capability ≤200000 Amps
Encoder voltage supply	5V DC or 12V DC 320 mA/channel, 5V DC minimum high state voltage state of 0.4V DC, 12V DC minimum high state voltage of 7.0V DC, maximum low state voltage of 0.4V DC

## Construction

336 mm
200 mm
166.9 mm
Drive: 7.03 kg

### Environmental

Sound level	Frame 1: 59 dB @ 30 CFM fan speed
Altitude	1000 m (3300 ft.) maximum without derating
Degree of protection (NEMA)	1
Atmosphere	Drive must not be installed in an area where the ambient atmosphere contains volatile or corrosive gas, vapors, or dust, If the drive is not going to be installed for a period of time, it must be stored in an area where it will not be exposed to a corrosi
Operating temperature	50 °C @ 540V DC
Storage temperature	-40 °C
Relative humidity	595% noncondensing
Surrounding air temperature without derating	NEMA/UL Type 1: 0° to 40° C (32° to 104° F)



Copyright ©2022 Rockwell Automation, Inc.