

Effective: June 2026

CONTROL PANEL CATALOG



A SMART SOLUTION FOR INDUSTRIAL CONTROL

Designed to simplify automation and protect your equipment, Sumitomo–Invertek control panels offer a ready-to-use solution with factory-preset configuration, eliminating complexity during commissioning.

KEY BENEFITS:

- **Immediate installation – Direct connection and operation with no complex setup required**
- **Comprehensive protection – Advanced protection for equipment and electrical installations**
- **Regulatory compliance – Assembled in accordance with applicable UL508A standards, ensuring safety, efficiency, and regulatory compliance in U.S. and Canada.**

Ideal for demanding industrial environments, these panels combine the reliability of Sumitomo Drive Technologies with a robust design and easy implementation.

TABLE OF CONTENTS

INVERTEK E3 PANELS

ESE31 ----- p.3
ESE32 ----- p.4
ESE33 ----- p.5
ESE34 ----- p.6

INVERTEK P2 PANELS

ESP22 ----- p.7
ESP23 ----- p.8
ESP24 ----- p.9

ENCLOSURE DIMENSIONS, NOMENCLATURE, AND CUSTOMIZATION ----- p.10

CONTROL PANELS ----- p.11

INVERTEK E3 CONTROL PANELS

ESE31

VARIABLE FREQUENCY DRIVES (VFDS) — 110–115 V
SINGLE-PHASE INPUT FOR 220 V AC THREE-PHASE MOTORS

APPLICATIONS

- Pumping systems
- Conveyors and mixers
- Fans and extractors



E3 ENCLOSURES — 110–115 V SINGLE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
A	0.5	2.3	Enclosure 0.5 HP, 2.3 A, E3, 110–115 V \pm 10% single-phase	ESE310.5#01
	1	4.3	Enclosure 1 HP, 4.3 A, E3, 110–115 V \pm 10% single-phase	ESE31001#01
	1.5	5.8	Enclosure 1.5 HP, 5.8 A, E3, 110–115 V \pm 10% single-phase	ESE311.5#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertek Optidrive E3
- Thermal circuit breaker
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm delivery time with a sales representative

ESE32

VARIABLE FREQUENCY DRIVES (VFDS) — 200–240 V

SINGLE-PHASE INPUT FOR 220 V AC THREE-PHASE MOTORS



APPLICATIONS

- Pumping systems
- Conveyors and mixers
- Fans and extractors
- Light industrial machinery

E3 ENCLOSURES — 200–240 V SINGLE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
A	0.5	2.3	Enclosure 0.5 HP, 2.3 A, E3, 200–240 V \pm 10% single-phase	ESE320.5#01
	1	4.3	Enclosure 1 HP, 4.3 A, E3, 200–240 V \pm 10% single-phase	ESE32001#01
	2	7	Enclosure 2 HP, 7 A, E3, 200–240 V \pm 10% single-phase	ESE32002#01
	3	10.5	Enclosure 3 HP, 10.5 A, E3, 200–240 V \pm 10% single-phase	ESE32003#01
B	5	15.3	Enclosure 5 HP, 15.3 A, E3, 200–240 V \pm 10% single-phase	ESE32005#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertek Optidrive E3
- Thermal circuit breaker
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm with a sales representative

ESE33

VARIABLE FREQUENCY DRIVES (VFDS) — 200–240 V THREE-PHASE INPUT & OUTPUT

APPLICATIONS

- Industrial pumping
- Automated production lines
- Fans and extractors
- Conveyors and mixers



E3 ENCLOSURES — 200–240 V THREE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
A	0.5	2.3	Enclosure 0.5 HP, 2.3 A, E3, 200–240 V ±10% three-phase	ESE330.5#01
	1	4.3	Enclosure 1 HP, 4.3 A, E3, 200–240 V ±10% three-phase	ESE33001#01
	2	7	Enclosure 2 HP, 7 A, E3, 200–240 V ±10% three-phase	ESE33002#01
	3	10.5	Enclosure 3 HP, 10.5 A, E3, 200–240 V ±10% three-phase	ESE33003#01
B	5	18	Enclosure 5 HP, 18 A, E3, 200–240 V ±10% three-phase	ESE33005#01
	7.5	24	Enclosure 7.5 HP, 24 A, E3, 200–240 V ±10% three-phase	ESE337.5#01
C	10	30	Enclosure 10 HP, 30 A, E3, 200–240 V ±10% three-phase	ESE33010#01
	15	46	Enclosure 15 HP, 46 A, E3, 200–240 V ±10% three-phase	ESE33015#01
	20	61	Enclosure 20 HP, 61 A, E3, 200–240 V ±10% three-phase	ESE33020#01
	25	72	Enclosure 25 HP, 72 A, E3, 200–240 V ±10% three-phase	ESE33025#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertek Optidrive E3
- Thermal circuit breaker
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm with a sales representative

ESE34

VARIABLE FREQUENCY DRIVES (VFDS) — 380–480 V

THREE-PHASE INPUT & OUTPUT

APPLICATIONS

- Industrial pumping
- Forced ventilation systems
- Heavy machinery
- Conveyors and mixers



E3 ENCLOSURES — 380–480 V THREE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
A	0.5	1.2	Enclosure 0.5 HP, 1.2 A, E3, 380–480 V ±10% three-phase	ESE340.5#01
	1	2.2	Enclosure 1 HP, 2.2 A, E3, 380–480 V ±10% three-phase	ESE34001#01
	2	4.1	Enclosure 2 HP, 4.1 A, E3, 380–480 V ±10% three-phase	ESE34002#01
	3	5.8	Enclosure 3 HP, 5.8 A, E3, 380–480 V ±10% three-phase	ESE34003#01
	5	9.5	Enclosure 5 HP, 9.5 A, E3, 380–480 V ±10% three-phase	ESE34005#01
B	7.5	14	Enclosure 7.5 HP, 14 A, E3, 380–480 V ±10% three-phase	ESE347.5#01
	10	18	Enclosure 10 HP, 18 A, E3, 380–480 V ±10% three-phase	ESE34010#01
	15	24	Enclosure 15 HP, 24 A, E3, 380–480 V ±10% three-phase	ESE34015#01
C	20	30	Enclosure 20 HP, 30 A, E3, 380–480 V ±10% three-phase	ESE34020#01
	25	39	Enclosure 25 HP, 39 A, E3, 380–480 V ±10% three-phase	ESE34025#01
	30	46	Enclosure 30 HP, 46 A, E3, 380–480 V ±10% three-phase	ESE34030#01
	40	61	Enclosure 40 HP, 61 A, E3, 380–480 V ±10% three-phase	ESE34040#01
	50	72	Enclosure 50 HP, 72 A, E3, 380–480 V ±10% three-phase	ESE34050#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertertek Optidrive E3
- Thermal circuit breaker
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm with a sales representative

INVERTEK P2 CONTROL PANELS

ESP22

VARIABLE FREQUENCY DRIVES (VFDS) — 200–240 V

SINGLE-PHASE INPUT FOR 220 V AC THREE-PHASE MOTORS

APPLICATIONS

- Pumping systems
- Conveyors and mixers
- Automated production lines
- Ventilation and extractors
- Heavy machinery (cranes, extruders, presses)



P2 ENCLOSURES — 200–240 V SINGLE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
B	1	4.3	Enclosure 1 HP, 4.3 A, P2, 200–240 V \pm 10% single-phase	ESP22001#01
	2	7	Enclosure 2 HP, 7 A, P2, 200–240 V \pm 10% single-phase	ESP22002#01
	3	10.5	Enclosure 3 HP, 10.5 A, P2, 200–240 V \pm 10% single-phase	ESP22003#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertek Optidrive P2
- Thermal circuit breaker
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm with a sales representative

ESP23

VARIABLE FREQUENCY DRIVES (VFDS) — 200–240 V

THREE-PHASE INPUT & OUTPUT

APPLICATIONS

- Industrial pumping
- Forced ventilation
- Automated production lines
- Heavy machinery (cranes, extruders, presses)
- Conveyors and mixers



P2 ENCLOSURES — 200–240 V THREE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
B	1	4.3	Enclosure 1 HP, 4.3 A, P2, 200–240 V ±10% three-phase	ESP23001#01
	2	7	Enclosure 2 HP, 7 A, P2, 200–240 V ±10% three-phase	ESP23002#01
	3	10.5	Enclosure 3 HP, 10.5 A, P2, 200–240 V ±10% three-phase	ESP23003#01
	5	18	Enclosure 5 HP, 18 A, P2, 200–240 V ±10% three-phase	ESP23005#01
	7.5	24	Enclosure 7.5 HP, 24 A, P2, 200–240 V ±10% three-phase	ESP237.5#01
C	10	30	Enclosure 10 HP, 30 A, P2, 200–240 V ±10% three-phase	ESP23010#01
	15	46	Enclosure 15 HP, 46 A, P2, 200–240 V ±10% three-phase	ESP23015#01
	20	60	Enclosure 20 HP, 60 A, P2, 200–240 V ±10% three-phase	ESP23020#01
	25	72	Enclosure 25 HP, 72 A, P2, 200–240 V ±10% three-phase	ESP23025#01
D	30	90	Enclosure 30 HP, 90 A, P2, 200–240 V ±10% three-phase	ESP23030#01
	40	110	Enclosure 40 HP, 110 A, P2, 200–240 V ±10% three-phase	ESP23040#01
	50	150	Enclosure 50 HP, 150 A, P2, 200–240 V ±10% three-phase	ESP23050#01
	60	180	Enclosure 60 HP, 180 A, P2, 200–240 V ±10% three-phase	ESP23060#01
BX	75	202	Enclosure 75 HP, 202 A, P2, 200–240 V ±10% three-phase	ESP23075#01
	100	248	Enclosure 100 HP, 248 A, P2, 200–240 V ±10% three-phase	ESP23100#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertek Optidrive P2
- Thermal circuit breaker
- Fast-acting fuses (from 30 HP and above)
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm with a sales representative

ESP24

VARIABLE FREQUENCY DRIVES (VFDS) — 380–480 V

THREE-PHASE INPUT & OUTPUT

APPLICATIONS

- Industrial ventilation and climate control
- Heavy machinery (cranes, extruders, presses)
- Industrial processes
- Conveyors and mixers

P2 ENCLOSURES — 380–480 V THREE-PHASE

ENCLOSURE SIZE	POWER (HP)	MOTOR OUTPUT CURRENT (A)	DESCRIPTION	CODE
B	1	2.2	Enclosure 1 HP, 2.2 A, P2, 380–480 V ±10% three-phase	ESP24001#01
	2	4.1	Enclosure 2 HP, 4.1 A, P2, 380–480 V ±10% three-phase	ESP24002#01
	3	5.8	Enclosure 3 HP, 5.8 A, P2, 380–480 V ±10% three-phase	ESP24003#01
	5	9.5	Enclosure 5 HP, 9.5 A, P2, 380–480 V ±10% three-phase	ESP24005#01
	7.5	14	Enclosure 7.5 HP, 14 A, P2, 380–480 V ±10% three-phase	ESP247.5#01
	10	18	Enclosure 10 HP, 18 A, P2, 380–480 V ±10% three-phase	ESP24010#01
	15	24	Enclosure 15 HP, 24 A, P2, 380–480 V ±10% three-phase	ESP24015#01
C	20	30	Enclosure 20 HP, 30 A, P2, 380–480 V ±10% three-phase	ESP24020#01
	25	39	Enclosure 25 HP, 39 A, P2, 380–480 V ±10% three-phase	ESP24025#01
	30	46	Enclosure 30 HP, 46 A, P2, 380–480 V ±10% three-phase	ESP24030#01
	40	61	Enclosure 40 HP, 61 A, P2, 380–480 V ±10% three-phase	ESP24040#01
	50	72	Enclosure 50 HP, 72 A, P2, 380–480 V ±10% three-phase	ESP24050#01
D	60	90	Enclosure 60 HP, 90 A, P2, 380–480 V ±10% three-phase	ESP24060#01
	75	110	Enclosure 75 HP, 110 A, P2, 380–480 V ±10% three-phase	ESP24075#01
	120	150	Enclosure 120 HP, 150 A, P2, 380–480 V ±10% three-phase	ESP24120#01
	150	180	Enclosure 150 HP, 180 A, P2, 380–480 V ±10% three-phase	ESP24150#01
	175	202	Enclosure 175 HP, 202 A, P2, 380–480 V ±10% three-phase	ESP24175#01
BX	200	240	Enclosure 200 HP, 240 A, P2, 380–480 V ±10% three-phase	ESP24200#01
	250	302	Enclosure 250 HP, 302 A, P2, 380–480 V ±10% three-phase	ESP24250#01
AX	300	370	Enclosure 300 HP, 370 A, P2, 380–480 V ±10% three-phase	ESP24300#01
	400	480	Enclosure 400 HP, 480 A, P2, 380–480 V ±10% three-phase	ESP24400#01

EACH ENCLOSURE INCLUDES

- Carbon steel enclosure, IP66
- Invertek Optidrive P2
- Thermal circuit breaker
- Fast-acting fuses (from 120 HP and above)
- 3-position selector switch (FWD / STOP / REV)
- Speed potentiometer
- Panel assembly accessories and identification
- Panel assembly
- Electrical diagram

Notes:

For enclosure dimensions and weight by model, see page 10

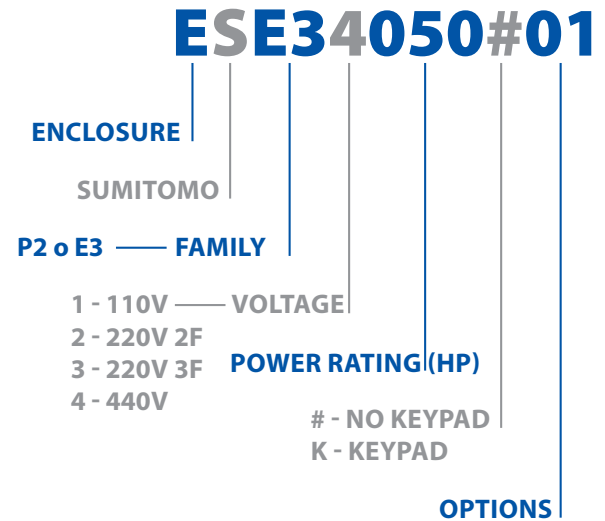
For specific panel configurations, see page 10

Lead time: 4-6 weeks — confirm with a sales representative

DIMENSIONS

TYPE	HEIGHT	WIDTH	DEPTH	WEIGHT	PROTECTION
A	500 mm	400 mm	210 mm	16 Kg	IP66
B	600 mm	600 mm	350 mm	34 Kg	IP66
C	760 mm	600 mm	350 mm	62 Kg	IP66
D	1000 mm	800 mm	400 mm	107 Kg	IP66
AX	2000 mm	800 mm	500 mm	272 Kg	IP55
BX	2000 mm	1200 mm	500 mm	294 Kg	IP55

NOMENCLATURE



SELECTOR / PUSHBUTTON CONFIGURATIONS

OPTION	CONTROL TYPE	POTENTIOMETER	PILOT LIGHT	E STOP
1	1 selector Start / Stop	-	-	-
2		X	-	-
3		-	X	-
4		-	-	X
5		X	X	-
6		X	-	X
7		-	X	X
8		X	X	X
9	2 selectors Start / Stop / Reverse	-	-	-
10		X	-	-
11		-	X	-
12		-	-	X
13		X	X	-
14		X	-	X
15		-	X	X
16		X	X	X
17	3-position selector FWD / STOP / REV	-	-	-
18		X	-	-
19		-	X	-
20		-	-	X
21		X	X	-
22		X	-	X
23		-	X	X
24		X	X	X

OPTION	CONTROL TYPE	POTENTIOMETER	PILOT LIGHT	E STOP
25	2 pushbuttons Start / Stop	-	-	-
26		X	-	-
27		-	X	-
28		-	-	X
29		X	X	-
30		X	-	X
31		-	X	X
32		X	X	X
33	3 pushbuttons Start / Stop / Reverse	-	-	-
34		X	-	-
35		-	X	-
36		-	-	X
37		X	X	-
38		X	-	X
39		-	X	X
40		X	X	X

Notes:

- For special button / selector / pilot configurations, please contact your Sumitomo Drive Technologies sales representative

Sumitomo Drive Technologies

A global power transmission solutions provider, with facilities strategically located throughout the world, providing comprehensive products and services in your region.

Headquarters



4200 Holland Blvd
Chesapeake, VA 23323

Email: SMA.CustomerService@shi-g.com

Phone: 757-485-3355



Configurator
Configure our products
to *your* needs.

- ★ MANUFACTURING HUB & HEADQUARTERS
- ★ MANUFACTURING HUB
- ASSEMBLY & SERVICE
- SERVICE
- ▲ REGIONAL SALES OFFICE