



## EU Declaration of Conformity

**IMO Precision Controls Ltd  
1000 North Circular Road,  
Staples Corner,  
London,  
NW2 7JP**

declare under our sole responsibility that the following product/s

### **IMO General Purpose AC Variable Speed Drives**

**SD1 followed by  
2.5A, 4.2A, 7.5A, 9.5A, 10A, 14A, 16A, 18.5A,  
20A, 25A, 32A, 38A, 45A, 60A, 75A, 92A,  
115A, 150A, 180A, 435A  
followed by -21, -23 or -43**

Intended Equipment Location: Built-In      Protection Degree: IP20

to which this declaration relates, are in conformity with the requirements of the following standards and other normative documents

**EN 61800-3:2004 +A1:2012**      **Adjustable speed electrical power drives.  
EMC product standard including specific test methods.**

**EN 61800-5-1:2007**      **Adjustable speed electrical power drives.  
Safety requirements. Electrical, thermal and energy.**

and therefore conform to the protection requirements of the Council Directives

**2014/30/EU**      **relating to Electromagnetic Compatibility**

**2014/35/EU**      **relating to Low Voltage Directive**

When installing the SD1 Drives, all requirements of EN 61800-5-1:2007 must be fulfilled and it should be suitably installed in closed electrical operation area, and fire/mechanical protection enclosure shall be provided. Maximum operating temperature is 40°C. The input and output circuits were considered as DVC C circuits and signal circuit was considered as DVC A circuit. TN-S, TN-C, TN-C-S and TT (not corner earthed) power systems were evaluated. The Drive has no overcurrent protective device. For safety operation, a suitable external circuit breaker must be employed before installation.

**Graham Viney**  
Quality Manager  
IMO Precision Controls Ltd  
7<sup>th</sup> April 2017

### Rated Input and Output

| Model        | Rated Input                                   | Rated Output                   |
|--------------|---|--------------------------------|
| SD1-2.5A-21  | 1PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 6.5A  | 3PH, 0V-Uinput, 1-400Hz, 2.5A  |
| SD1-4.2A-21  | 1PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 9.3A  | 3PH, 0V-Uinput, 1-400Hz, 4.2A  |
| SD1-7.5A-21  | 1PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 15.7A | 3PH, 0V-Uinput, 1-400Hz, 7.5A  |
| SD1-10A-21   | 1PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 24AA  | 3PH, 0V-Uinput, 1-400Hz, 10A   |
| SD1-2.5A-23  | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 3.7A  | 3PH, 0V-Uinput, 1-400Hz, 2.5A  |
| SD1-4.2A-23  | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 5A    | 3PH, 0V-Uinput, 1-400Hz, 4.2A  |
| SD1-7.5A-23  | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 7.7A  | 3PH, 0V-Uinput, 1-400Hz, 7.5A  |
| SD1-10A-23   | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 11A   | 3PH, 0V-Uinput, 1-400Hz, 10A   |
| SD1-16A-23   | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 17A   | 3PH, 0V-Uinput, 1-400Hz, 16A   |
| SD1-20A-23   | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 21A   | 3PH, 0V-Uinput, 1-400Hz, 20A   |
| SD1-30A-23   | 3PH, 220V(-15%)-240V(+10%),<br>47-63Hz, 31A   | 3PH, 0V-Uinput, 1-400Hz, 30A   |
| SD1-2.5A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 3.4A  | 3PH, 0V-Uinput, 1-400Hz, 2.5A  |
| SD1-4.2A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 5A    | 3PH, 0V-Uinput, 1-400Hz, 4.2A  |
| SD1-5.5A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 5.8A  | 3PH, 0V-Uinput, 1-400Hz, 5.5A  |
| SD1-9.5A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 13.5A | 3PH, 0V-Uinput, 1-400Hz, 9.5A  |
| SD1-14A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 19.5A | 3PH, 0V-Uinput, 1-400Hz, 14A   |
| SD1-18.5A-43 | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 25A   | 3PH, 0V-Uinput, 1-400Hz, 18.5A |
| SD1-25A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 32A   | 3PH, 0V-Uinput, 1-400Hz, 25A   |
| SD1-32A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 40A   | 3PH, 0V-Uinput, 1-400Hz, 32A   |
| SD1-38A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 47A   | 3PH, 0V-Uinput, 1-400Hz, 38A   |
| SD1-45A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 51A   | 3PH, 0V-Uinput, 1-400Hz, 45A   |
| SD1-60A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 70A   | 3PH, 0V-Uinput, 1-400Hz, 60A   |
| SD1-75A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 80A   | 3PH, 0V-Uinput, 1-400Hz, 75A   |
| SD1-92A-43   | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 98A   | 3PH, 0V-Uinput, 1-400Hz, 92A   |
| SD1-115A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 128A  | 3PH, 0V-Uinput, 1-400Hz, 115A  |
| SD1-150A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 139A  | 3PH, 0V-Uinput, 1-400Hz, 150A  |
| SD1-180A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 168A  | 3PH, 0V-Uinput, 1-400Hz, 180A  |
| SD1-215A-43  | 3PH, 380V(-15%)-440V(+10%),<br>47-63Hz, 201A  | 3PH, 0V-Uinput, 1-400Hz, 215A  |