

IN-LINE CENTRIFUGAL DUCT FANS

PERFORMANCE GUIDE & ELECTRICAL DATA

| Unit Code | Nom. RPM | Phase | Duty - m ³ /s @ Pa | | | | | | | | | | | | Motor | | Amps | |
|-------------------------------|----------|-------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| | | | 0 | 25 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | Watts | FLC | SC |
| Standard Range | | | | | | | | | | | | | | | | | | |
| SDX100A | 2450 | 1 | 0.069 | 0.064 | 0.059 | 0.055 | 0.05 | 0.046 | 0.041 | 0.03 | 0.015 | | | | 80 | 0.36 | 1.44 | |
| SDX125A | 2450 | 1 | 0.087 | 0.08 | 0.073 | 0.066 | 0.059 | 0.053 | 0.046 | 0.033 | 0.017 | | | | 80 | 0.36 | 1.44 | |
| SDX150A | 2600 | 1 | 0.165 | 0.153 | 0.142 | 0.131 | 0.12 | 0.109 | 0.098 | 0.078 | 0.056 | 0.033 | | | 85 | 0.38 | 1.52 | |
| SDX160A | 2600 | 1 | 0.165 | 0.153 | 0.142 | 0.131 | 0.12 | 0.109 | 0.098 | 0.078 | 0.056 | 0.033 | | | 85 | 0.38 | 1.52 | |
| SDX200A | 2600 | 1 | 0.214 | 0.2 | 0.186 | 0.173 | 0.159 | 0.144 | 0.129 | 0.099 | 0.072 | 0.043 | 0.016 | | | 85 | 0.38 | 1.52 |
| SDX250A | 2700 | 1 | 0.252 | 0.242 | 0.232 | 0.222 | 0.212 | 0.201 | 0.192 | 0.169 | 0.144 | 0.114 | 0.069 | | | 150 | 0.66 | 2.64 |
| SDX315A | 2460 | 1 | 0.36 | 0.351 | 0.341 | 0.33 | 0.318 | 0.306 | 0.296 | 0.276 | 0.253 | 0.228 | 0.206 | 0.184 | 0.162 | 230 | 1.05 | 4.20 |
| High Performance Range | | | | | | | | | | | | | | | | | | |
| SDX150H | 2700 | 1 | 0.186 | 0.177 | 0.167 | 0.157 | 0.146 | 0.136 | 0.126 | 0.106 | 0.086 | 0.064 | 0.033 | | | 85 | 0.38 | 1.52 |
| SDX160H | 2700 | 1 | 0.186 | 0.177 | 0.167 | 0.157 | 0.146 | 0.136 | 0.126 | 0.106 | 0.086 | 0.064 | 0.033 | | | 85 | 0.38 | 1.52 |
| SDX200H | 2700 | 1 | 0.242 | 0.232 | 0.221 | 0.21 | 0.199 | 0.187 | 0.175 | 0.15 | 0.122 | 0.093 | 0.048 | | | 150 | 0.66 | 2.64 |
| SDX250H | 2600 | 1 | 0.27 | 0.257 | 0.244 | 0.231 | 0.218 | 0.206 | 0.194 | 0.17 | 0.147 | 0.124 | 0.101 | 0.077 | 0.053 | 155 | 0.70 | 2.80 |
| SDX315H | 2460 | 1 | 0.51 | 0.497 | 0.482 | 0.465 | 0.446 | 0.431 | 0.416 | 0.383 | 0.353 | 0.321 | 0.284 | 0.246 | 0.217 | 230 | 1.05 | 4.20 |

FLC = Full Load Current SC = Starting Current

SOUND DATA

SOUND POWER LEVEL SPECTRA dB (ref 10⁻¹² Watts)

| Unit Code | | MID OCTAVE BANDS | | | | | | | | dBA @ 3m |
|-------------------------------|--------|------------------|-----|-----|-----|------|------|------|------|----------|
| | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| Standard Range | | | | | | | | | | |
| SDX100A | Inlet | 57 | 58 | 66 | 58 | 60 | 56 | 54 | 47 | 47 |
| | Outlet | 56 | 55 | 67 | 57 | 59 | 57 | 56 | 50 | 47 |
| SDX125A | Inlet | 52 | 58 | 60 | 59 | 59 | 57 | 54 | 48 | 46 |
| | Outlet | 57 | 61 | 67 | 59 | 59 | 56 | 55 | 50 | 47 |
| SDX150A | Inlet | 58 | 59 | 69 | 67 | 64 | 59 | 54 | 46 | 51 |
| | Outlet | 59 | 59 | 69 | 62 | 61 | 57 | 53 | 45 | 48 |
| SDX160A | Inlet | 58 | 59 | 69 | 67 | 64 | 59 | 54 | 46 | 51 |
| | Outlet | 59 | 59 | 69 | 62 | 61 | 57 | 53 | 45 | 48 |
| SDX200A | Inlet | 58 | 63 | 63 | 67 | 62 | 58 | 53 | 44 | 50 |
| | Outlet | 55 | 60 | 60 | 62 | 59 | 57 | 55 | 45 | 47 |
| SDX250A | Inlet | 60 | 65 | 64 | 70 | 65 | 60 | 58 | 54 | 53 |
| | Outlet | 59 | 60 | 61 | 69 | 62 | 61 | 58 | 55 | 52 |
| SDX315A | Inlet | 71 | 69 | 70 | 73 | 68 | 67 | 66 | 64 | 57 |
| | Outlet | 66 | 67 | 69 | 74 | 73 | 72 | 68 | 66 | 61 |
| High Performance Range | | | | | | | | | | |
| SDX150H | Inlet | 58 | 59 | 69 | 67 | 64 | 59 | 54 | 46 | 51 |
| | Outlet | 59 | 59 | 69 | 62 | 61 | 57 | 53 | 45 | 49 |
| SDX160H | Inlet | 58 | 59 | 69 | 67 | 64 | 59 | 54 | 46 | 51 |
| | Outlet | 59 | 59 | 69 | 62 | 61 | 57 | 53 | 45 | 49 |
| SDX200H | Inlet | 58 | 63 | 66 | 71 | 67 | 62 | 57 | 49 | 54 |
| | Outlet | 59 | 66 | 65 | 69 | 65 | 63 | 59 | 49 | 53 |
| SDX250H | Inlet | 60 | 64 | 65 | 69 | 64 | 57 | 56 | 49 | 52 |
| | Outlet | 61 | 64 | 65 | 68 | 65 | 63 | 58 | 51 | 53 |
| SDX315H | Inlet | 64 | 70 | 77 | 74 | 71 | 71 | 70 | 70 | 61 |
| | Outlet | 64 | 70 | 75 | 74 | 71 | 73 | 68 | 67 | 61 |

Published dB(A) figures are free field sound levels at 3m with spherical propagation at a reference level of 2 x 10⁻⁵ Pa. The free field sound power level spectra figure are dB with reference of 10⁻¹² Watts.

To ensure minimum noise levels during speed control an **auto transformer speed controller** is recommended.

IN-LINE CENTRIFUGAL DUCT FANS

ACCESSORIES

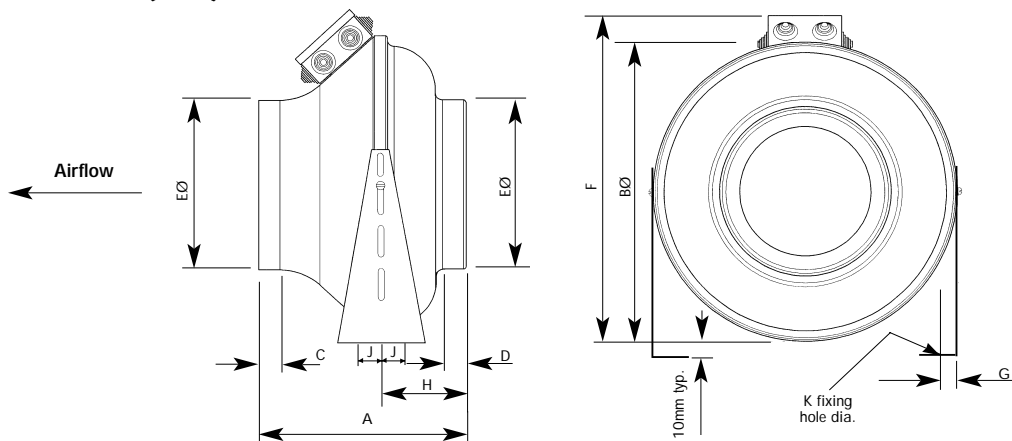
| Unit Code | Electronic Controller Code | Auto Transf. Controller Code | Electric Heaters Code | Panel Filters Code | Spare Panel Filters Code | Bag Filters Code | Spare Bag Filters Code | Distribution Boxes Code | Back Draught Shutters Code |
|-----------|----------------------------|------------------------------|-----------------------|--------------------|--------------------------|------------------|------------------------|-------------------------|----------------------------|
| SDX100 | SP5001 | SPM5026 | QAH100 | QPF100A | FILTERS100 | QPFB100 | FILTERQPFB100 | PLB100 | BDS100 |
| SDX125 | SP5001 | SPM5026 | QAH125 | QPF125A | FILTERS125160 | QPFB125 | FILTERQPFB125 | PLB125 | BDS125 |
| SDX150 | SP5001 | SPM5026 | QAH150 | QPF150A | FILTERS125160 | QPFB150 | FILTERQPFB150 | PLB150 | BDS150 |
| SDX160 | SP5001 | SPM5026 | QAH160 | QPF160A | FILTERS125160 | QPFB160 | FILTERQPFB160 | PLB160 | BDS160 |
| SDX200 | SP5001 | SPM5026 | QAH200 | QPF200A | FILTERS200 | QPFB200 | FILTERQPFB200 | PLB200 | BDS200 |
| SDX250 | SP5001 | SPM5026 | QAH250 | QPF250A | FILTERS250 | QPFB250 | FILTERQPFB250 | PLB250 | BDS250 |
| SDX315 | SP5001 | SPM5026 | QAH315 | QPF315A | FILTERS315 | QPFB315 | FILTERQPFB315 | PLB315 | BDS315 |

| Unit Code | Circular Silencer 300mm Code | Circular Silencer 600mm Code | Circular Silencer 900mm Code | Circular Silencer 1200mm Code | Wall Terminal (280mm) *Code | Roof Terminal Code | Louvre Shutter Code | Fast Clamp Code | Speed Clamp Code | Intumescent Fire Dampers Code |
|-----------|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------|---------------------|-----------------|------------------|-------------------------------|
| SDX100 | 010-030 | 010-060 | 010-090 | - | SA100/280 | WRC100 | LS250 | FC100 | 49085135 | CVT100 |
| SDX125 | 012-030 | 012-060 | 012-090 | - | SA125/280 | WB160 | LS250 | FC125 | 49085135 | CVT130 |
| SDX150 | 015-030 | 015-060 | 015-090 | - | SA150/280 | WB160 | LS315 | FC150 | 49115165 | CVT150 |
| SDX160 | 016-030 | 016-060 | 016-090 | - | SA150/280 | WB160 | LS315 | FC160 | 49115165 | - |
| SDX200 | - | 020-060 | 020-090 | 020-120 | SA200/280 | WB200 | LS315 | FC200 | 49165215 | CVT200 |
| SDX250 | - | 025-060 | 025-090 | 025-120 | SA250/280 | WB200 | LS315 | FC250 | 49275325 | CVT250 |
| SDX315 | - | 031-060 | 031-090 | 031-120 | SA315/280 | RU31/35P | LS400 | FC315 | 49275325 | CVT300 |

| Unit Code | Euroflex 120 Vinyl Coated Flexible (6m) Code | Euroflex 130 Aluminium Flexible (10m) Code | Euroflex 150 Multiple Layer Flexible (10m) Code | Euroflex 200 Thermal Flexible (10m) Code | Euroflex 350 Acoustic Flexible (6m) Code | Extract Valves (plastic) Code | Supply Valves (plastic) Code | Supply or Extract Steel Valves Code | Fire Protection Valves Code | Circular Fusible Link Fire Damper Code |
|-----------|--|--|---|--|--|-------------------------------|------------------------------|-------------------------------------|-----------------------------|--|
| SDX100 | 12904102 | 13904102 | 15904102 | 20904102 | 35904102 | VLV100 | VLI100 | VHE100 | VHD100 | PA100A |
| SDX125 | 12905127 | 13905127 | 15905127 | 20905127 | 35905127 | VLV125 | VLI125 | VHE125 | VHD120 | PA125A |
| SDX150 | 12906152 | 13906152 | 15906152 | 20906152 | 35906152 | VLV150 | VLI150 | VHE150 | VHD150 | PA150A |
| SDX160 | 12900160 | 13900160 | 15900160 | 20900160 | 35900160 | - | - | - | - | PA160A |
| SDX200 | 12908203 | 13908203 | 15908203 | 20908203 | 35908203 | VLK200 | VLK200 | VHE200 | VHD200 | PA200A |
| SDX250 | 12910254 | 13910254 | 15910254 | 20910254 | 35910254 | - | - | - | - | - |
| SDX315 | 12900315 | 13900315 | 15900315 | 20900315 | 35900315 | - | - | - | - | - |

* NOTE: Please state length of wall terminal required (80 or 280mm)

DIMENSIONS (mm)

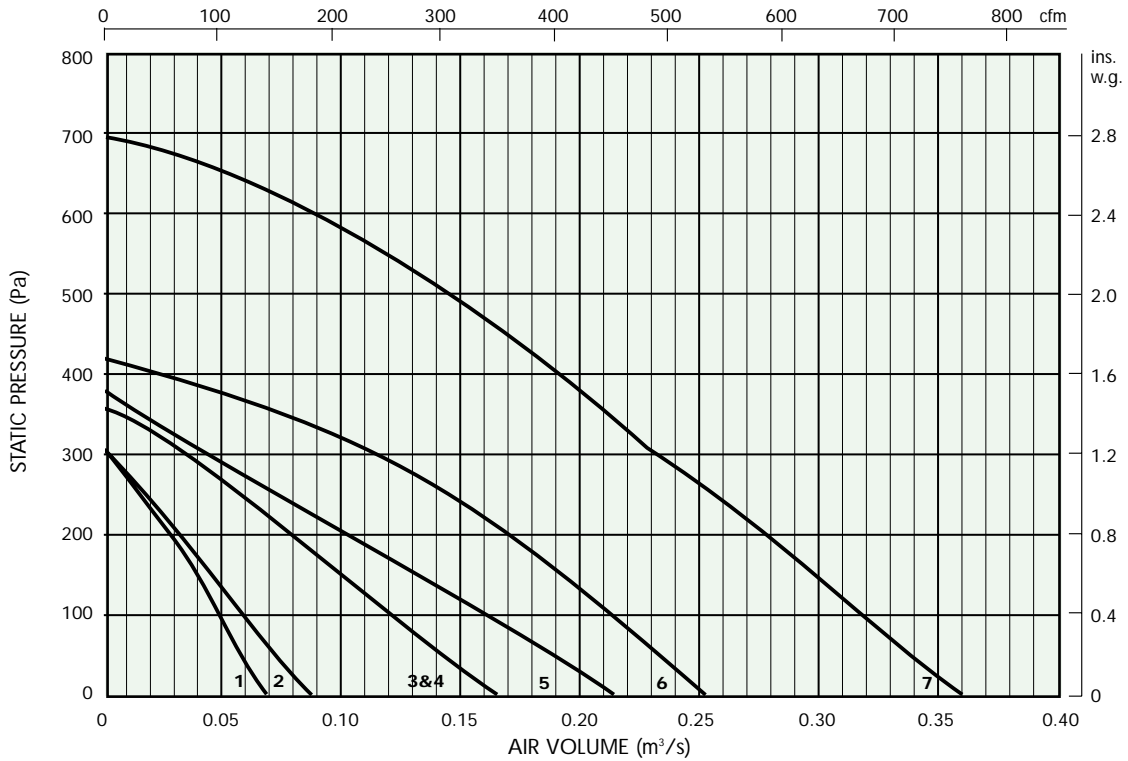


| Unit Size | A | BØ | C | D | EØ | F | G | H | J | KØ | Weight Kg |
|-----------|-----|-----|----|----|-----|-----|------|-----|------|----|-----------|
| SDX100 | 240 | 250 | 35 | 36 | 98 | 280 | 41.5 | 120 | 42.5 | 7 | 3.0 |
| SDX125 | 240 | 250 | 35 | 36 | 123 | 280 | 41.5 | 120 | 42.5 | 7 | 3.0 |
| SDX150 | 250 | 342 | 35 | 36 | 148 | 372 | 41.5 | 120 | 42.5 | 7 | 5.0 |
| SDX160 | 250 | 342 | 35 | 36 | 158 | 372 | 41.5 | 120 | 42.5 | 7 | 5.0 |
| SDX200 | 239 | 349 | 25 | 27 | 198 | 379 | 41.5 | 99 | 42.5 | 7 | 5.0 |
| SDX250 | 259 | 349 | 25 | 27 | 248 | 379 | 41.5 | 129 | 42.5 | 7 | 5.5 |
| SDX315 | 259 | 399 | 32 | 27 | 313 | 441 | 41.5 | 139 | 42.5 | 7 | 6.0 |

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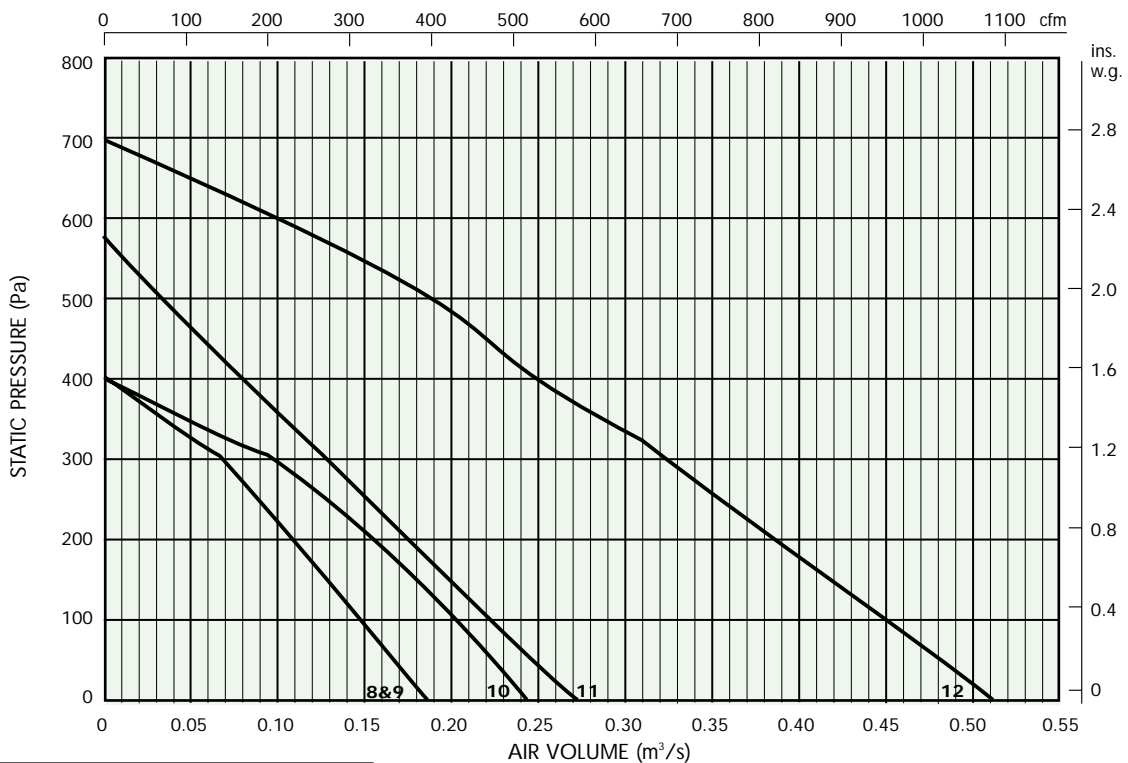
PERFORMANCE CURVES

STANDARD RANGE



| Size | 100A | 125A | 150A | 160A | 200A | 250A | 315A |
|------|------|------|------|------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

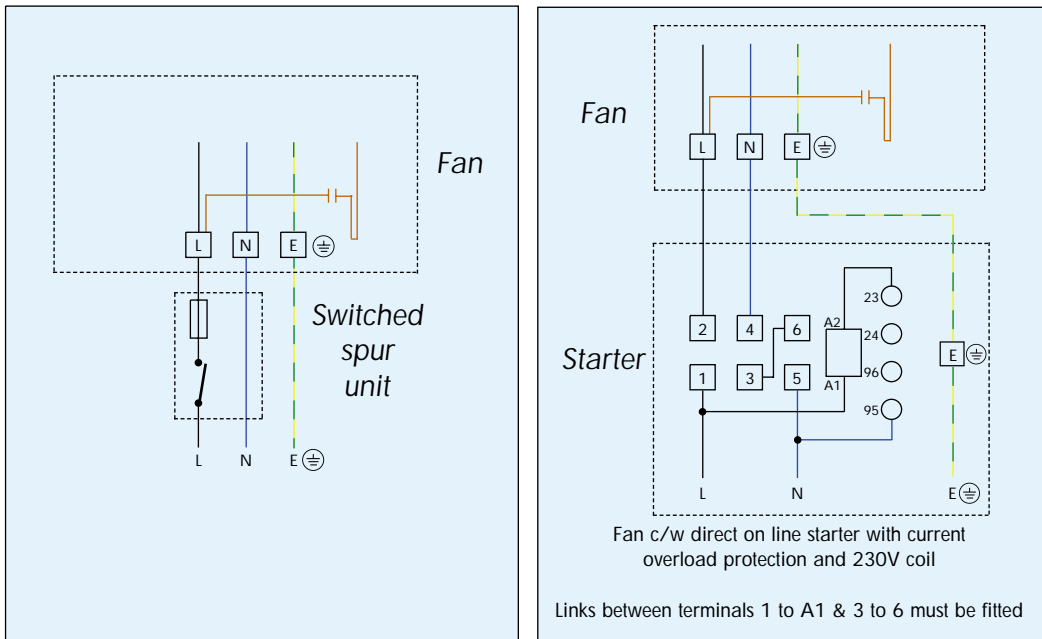
HIGH PERFORMANCE RANGE



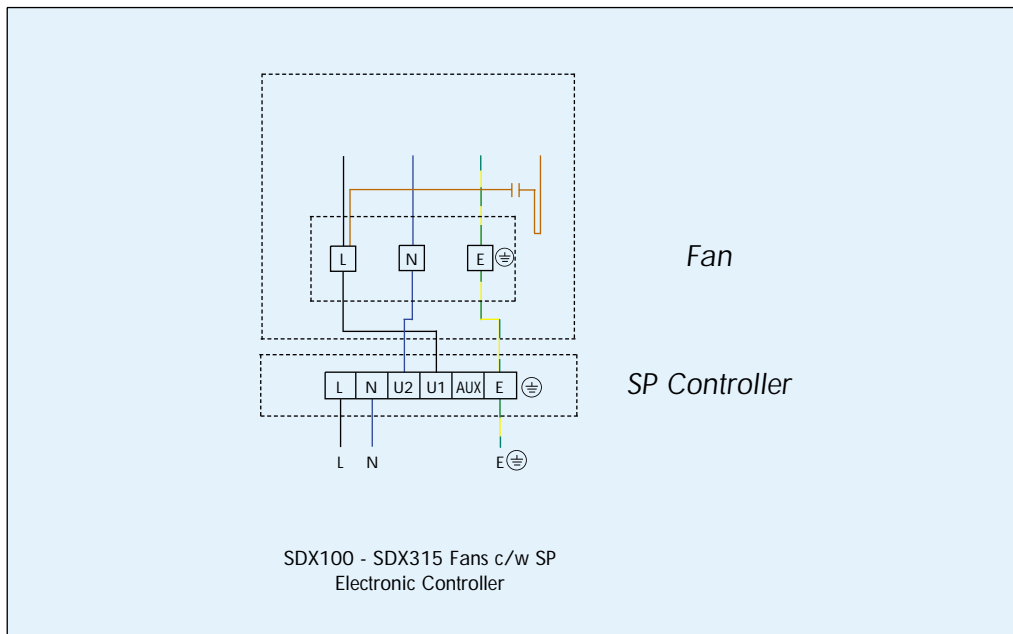
| Size | 150H | 160H | 200H | 250H | 315H |
|------|------|------|------|------|------|
| | 8 | 9 | 10 | 11 | 12 |

SINGLE PHASE IN-LINE CENTRIFUGAL DUCT FANS WIRING DIAGRAMS 230V 1PH 50HZ SUPPLY

SWITCH SPUR WIRING DIAGRAM D.O.L. STARTER WIRING DIAGRAM

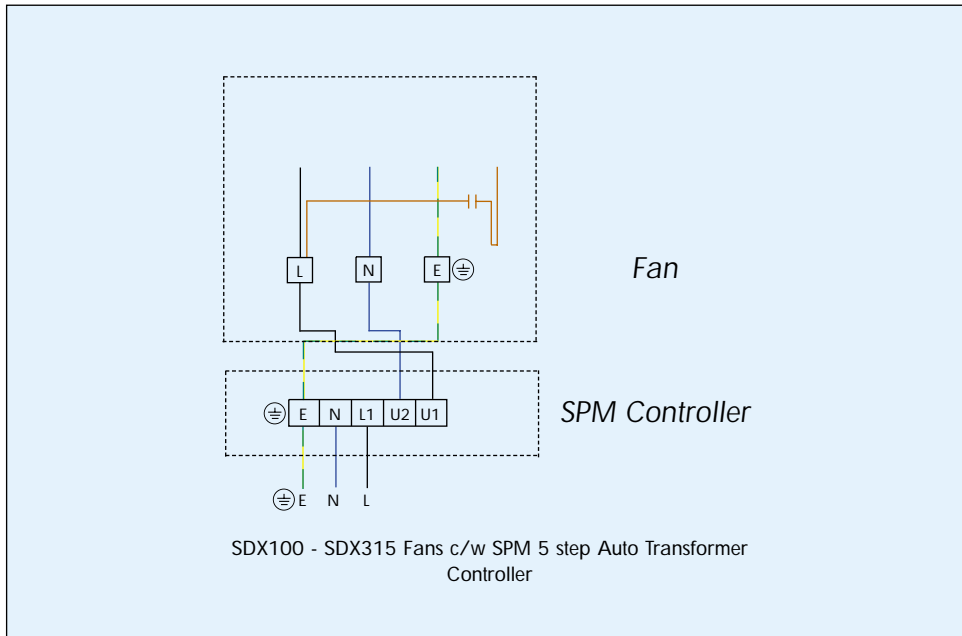


SINGLE PHASE ELECTRONIC SPEED CONTROLLER WIRING DIAGRAM



SINGLE PHASE IN-LINE CENTRIFUGAL DUCT FANS WIRING DIAGRAMS 230V 1PH 50Hz SUPPLY

SINGLE PHASE AUTO TRANSFORMER SPEED CONTROLLER WIRING DIAGRAM



These products must be installed by a suitably qualified and competent person in accordance with current applicable regulations.