

SÄKERHETSINFORMATION / SAFETY INFORMATION

air motors atex safety manual

Ingersoll Rand MRV015B5D71-A

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Rotary Air Motors - ATEX

Ex h IIB Tmax Gb X

Ex h IIIB Tmax Db X

Special Conditions for Safe Use



Save These Instructions

Rotary Air Motors

Intended for use in Potentially Explosive Atmospheres

NOTICE

The EC Declaration of Incorporation in this manual states that these Air Motors have been reviewed as components for compliance to European Community Directive 2014/34/EU “Equipment for use in potentially explosive atmospheres”, commonly referred to as the ATEX Directive.

These Air Motors have been reviewed for conformance as defined by ATEX designation:

Ex h IIB Tmax Gb X

Ex h IIIB Tmax Db X

These Air Motors have not been marked with the above symbols because they are intended to be incorporated as a component of a complete system. The final conditions of marking will depend on the system into which they are incorporated.

The ‘X’ indicates that additional special conditions are required for safe application, operation and/or maintenance of these products when used in potentially explosive atmospheres.

The Air Motors listed in this manual have been reviewed as components for incorporation into systems designed for use in certain potentially explosive atmospheres under the following special conditions.

NOTICE

All special conditions must be followed for this product to conform to the ATEX Directive and for the ATEX Declaration of Incorporation to be valid.

Special Conditions for Safe Application, Installation Operation and Maintenance



WARNING

- **Non-compliance with any of these special conditions could result in ignition of explosive atmospheres.**
- **Rubbing and friction can cause sparks or elevated temperatures that may be a source of ignition of an explosive atmosphere.**

Application and Installation

- Air Motors shall not be operated when an explosive atmosphere is present.
- Never use the Air Motor on any application where there is a possibility that a gas in Group C (acetylene, carbon disulfide, and hydrogen, as defined in EN60079), or hydrogen sulfide, ethylene oxide or carbon monoxide, may be present. These gases cause a high probability of explosion.
- Measure and state normal acceptable vibration levels during operation of the completed motor installation.
- A **Work Permit System** should be used that ensures that explosive atmospheres are not present in the zone of operation during motor operation.
- Do not install, maintain, or remove motor from the system in the presence of a potentially explosive atmosphere.
- Due to the possibility of accumulation of static discharge, care must be taken to ensure the motor is properly grounded at all times to prevent ignition hazards from electrostatic discharge. A resistance to earth of less than 10000 ohms is required.

Motor Operation Conditions

- Do not exceed rated air pressure of the Air Motor. This can be found on motor housing label. Use of air pressure above rated pressure could cause premature failure of bearings or other components due to excessive speed, output torque or force and become a source of ignition.
- Elevated surface temperature, an indication of overload or potential failure of bearings or other mechanical components, may create an ignition source.
- The maximum expected surface temperature (Tmax.) of the entire system, into which the motor is incorporated, should be measured and stated for the ATEX Directive Marking Requirement and Certificate of Conformance.
- Maximum bearing temperatures should not exceed 60°C for an extended length of time.
- Monitor Air Motor bearings and housing temperatures during motor operation for unusually high operating temperatures.
- Air Motor maximum surface temperature was measured at Tmax. with an ambient temperature of 21°C. This measurement was made with the Air Motor operating at no load, free speed, maximum pressure as noted on the motor until the temperature reached steady state.
- Elevated vibration levels are an indication of imbalance or potential failure of bearings or other mechanical components that may create an ignition source.
 - i. Monitor Air Motor shaft and housing vibration for normal conditions. Normal acceptable vibration levels during operation should be measured and stated for the complete system.
 - ii. If elevated temperatures or elevated vibration levels are detected, discontinue use of the Air Motor until it can be inspected and/or repaired.

Bearing overload will cause premature bearing malfunctions that may result in rubbing and friction. Comply with the following to prevent bearing overload.

- Do not exceed factory recommendation for maximum allowable shaft radial load versus speed.
- Refer to catalog data and/or an **Ingersoll Rand** Technical Specialist for specific technical information and recommendations.
- Driven loads should be balanced to eliminate abnormal loading of the Air Motor bearings due to radial vibration.
- Ensure that motor shaft and driven rotating or oscillating components do not come in contact with other components.
- Enclose or guard moving parts.
- Mount Air Motor securely. A loose motor will cause abnormal operation or may drop from mounting.
- Guard Air Motor from impact that may result in a spark.

Operation

Always use clean and dry air. Always apply lubrication as noted in the product manual and apply air pressure not to exceed the maximum pressure as noted on the motor. Higher pressure may result in hazardous situations including excessive speed, or incorrect output torque or force resulting in premature failure of bearings or other components.

Refer to manufacturer’s specification supplied with the Air Motor for proper airline lubrication.

Maintenance

Follow all lubrication and maintenance recommendations as found in the manual supplied with the Air Motor.

- Do not perform maintenance or repairs in an area where hazardous atmospheres are present.
- Do not clean or lubricate Air Motor with flammable or volatile liquids, such as kerosene, diesel or jet fuel, which create a potentially explosive atmosphere.

NOTICE

- **Place the recommendations given in these special conditions, and any similar recommendations identified by the explosive hazard assessment of the complete machine, in the accompanying literature of the machine into which the Air Motor is incorporated.**
- **To safely use this product and conform with the provisions of the Machinery Directive 2006/42/EC, all instructions given in the accompanying literature, in addition to all conditions, notices and warnings given herein, must be followed.**
- **The EC Declaration of Incorporation in this manual states that the listed products and models have been reviewed for compliance to European Community Directive 2014/34/EU for equipment for use in potentially explosive atmospheres. Air Motors are intended to be integrated or incorporated into a larger machine. Ingersoll Rand Company Limited cannot foresee all of the ways that this component may be applied and, therefore, Ingersoll Rand Company Limited cannot provide all of the safety aspects of the larger, completed machine. It remains, therefore, the responsibility of the builder of the larger, completed machine to ensure that the larger, completed machine, including all component parts, meets all of the safety requirements for application, installation, operation, inspection and maintenance in accordance with all applicable standards and regulations (local, state, country, federal, etc.). If the larger, completed machine is to be sold in the European Union, then it remains the builder’s sole responsibility to properly guard, warn, identify, state and mark the product as such and to provide Declaration of Incorporation to applicable directives.**

Explanation of ATEX and Declaration of Incorporation

- Assess their products to prevent creation of an explosive atmosphere or a source of ignition of an explosive atmosphere.
- Certify that when the products are properly installed, maintained and used for their intended purpose, they do not endanger the health and safety of persons, animals or property.

The ATEX Directive recognizes that the probability of a serious event occurring varies with:

- The explosive properties of the atmosphere.
- The probability of the atmosphere being present.
- The probability of the machinery causing an explosive atmosphere.
- The probability of the machinery causing an ignition source.

The ATEX Directive recognizes the need for special conditions of installation, operation and maintenance that must be followed to reduce or eliminate this potential for a serious event.

The ATEX Directive requires a completed machine be marked to indicate that the completed machine has been certified for use in potentially explosive atmospheres and to inform users of limits and special conditions of use.

The conditions mentioned in this manual and those mentioned in the Product Information manual must ALL be followed for this product to conform to the ATEX Directive and for the ATEX Declaration of Incorporation to be valid. Monitoring the motor temperature to ensure it does not exceed the temperatures listed in Table 1 must be performed. If the temperature of the motor exceeds the temperature in Table 1, remove the motor from the system and perform the necessary maintenance or replace the motor. Do not perform maintenance or repairs on the motor when hazardous atmospheres are present. Do not clean or lubricate motor with flammable or volatile liquids such as kerosene, gasoline, diesel, or jet fuel since it may create a potentially explosive atmosphere.

Table 1: Tmax. Rating

Air Motor Series	Model Series	Temperature Rating (Tmax.)	Maximum Allowable Temperature Rating in degrees Celsius (°C)
M002	M002()	T4	135
M004	M004()	T6	85
M007	M007()	T4	135
1801 and 1841	18()	T6	85
3800 and 3840	38()	T6	85
4800 and 4840	48()	T6	85
92RA and 92RB	92R()	T4	135
MVA	MVA()	T3	200
M0V	M0V()	T3	200
17RA and 17RB	17()	T2	300
34RA and 34RB	34()	T3	200
48RA and 48RB	48R()	T6	85
0 Series Power Motors	822()	T6	85
000 Series Power Motors	75()	T6	85
2200 Series Power Motors	78()	T6	85
	827()		
	820()		
44 Series Power Motors	821()	T6	85
	821()		
SM Series Lube Free Motors	SM()	T6	85
SM-A Series Lube Free Motors	SM-A()	T6	85
MRV	MRV()	T6	85
MRV-A	MRV-A()	T6	85

Safety Symbol Identification



Risk of
Electric Shock



Wear Respiratory
Protection



Wear Eye
Protection



Wear Hearing
Protection



Read Manuals Before
Operating Products



(Dwg. MHP2598)

Safety Information - Explanation of Safety Signal Words

 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.
NOTICE	Indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property.

General Information

 **CAUTION**

Repair should be made only by authorized trained personnel. Consult your nearest Ingersoll Rand Authorized Service Center.

Manuals can be downloaded from ingersollrand.com

Refer all communications to the nearest **Ingersoll Rand** office or distributor.

CE Declaration of Incorporation

Table 1. Declaration of Incorporation Requirement

1	Date of Issue	November 2023
2	Manufacturer Name and Address	Ingersoll Rand Industrial Ireland Ltd. / Lakeview Dr, Swords, IE
3	Object of Declaration	Rotary Air Motor (model) 1801(), 1841(), 3800(), 3840(), 4800(), 4840(), 92R(), M002(), M004(), M007(), MRV(), MRV-A(), MVA(), MOV(), 17R(), 34R(), 48R(), 822(), 75(), 78(), 827(), 820(), 821(), SM1(), SM1-A(), SM2(), SM2-A(), SM4(), SM4-A(), SM6(), SM6-A(), SM8(), and SM8-A() Serial Number Range: SP23L010001 --> SP30M319999 SHM23L010001 --> SHM30M319999 F23L010001 --> F30M319999 TE23L010001 --> TE30M319999 Place Model Number & Serial Number here for ATEX PRODUCTS ONLY.
4	Directives(s) Conformity	2006/42/EC (Machinery) and 2014/34/EU (ATEX)
5	Standard(s) Compliance	EN ISO 12100:2010, EN 1127-1:2011, EN ISO 80079-36:2016, EN ISO 80079-37:2016, EN ISO 60079-0, and EN ISO 4414:2010
6	Tech File Author Name (EU) Title/Position	Alexis Flipo Product Engineering Manager
7	Declaration Author Name Title/Position	Randall Ricker Engineering Lead, Engine Starters and Air Motors

EN - This declaration is issued on this day [1] under the sole responsibility of the manufacturer [2]. The object of the declaration [3 Model/Serial Number Range] is in conformity with the provisions of the directive(s) [4] as shown by compliance with the harmonized standard(s) [5]. The technical documentation, available at the above address [2], is compiled by [6] and this declaration is approved by [7].

BG - Тази декларация се издава на този ден [1] под единствената отговорност на производителя [2]. Предметът на декларацията [3 Модел/Сериен номер] е в съответствие с разпоредбите на директива(и) [4], както е показано чрез съответствие с хармонизирания(те) стандарт(и) [5]. Техническата документация, налична на адреса по-горе [2], е съставена от [6] и тази декларация е одобрена от [7].

CS - Toto prohlášení je vystaveno dne [1] na výhradní zodpovědnost výrobce [2]. Předmět prohlášení [3 Model/Výrobní číslo] je ve shodě s ustanoveními této směrnice/směrnic [4], jak je uvedeno v souladu s harmonizovanou normou/normami [5]. Technická dokumentace, která je k dispozici na výše uvedené adrese [2], je vystavena [6], a toto prohlášení je schváleno [7].

DA - Denne erklæring er udstedt på denne dag [1] under producentens eget ansvar [2]. Formålet med erklæringen [3 Model/Serienr] er i overensstemmelse med bestemmelserne i direktivet/direktiverne [4] som vist ved overensstemmelse med de(n) harmoniserede standard(er) [5]. Den tekniske dokumentation, der findes på ovennævnte adresse [2], er kompileret af [6], og denne erklæring er godkendt af [7].

DE - Diese Erklärung wird an diesem Tag [1] herausgegeben und unterliegt der alleinigen Verantwortung des Herstellers [2]. Der Gegenstand der Erklärung [3 Modell/Serien-Nr.-Bereich] stimmt mit den Bestimmungen der Richtlinie(n) überein [4], wie durch die Einhaltung der harmonisierten Norm(en) dargestellt [5]. Die technische Dokumentation, die an der oben genannten Adresse zur Verfügung steht [2], wird von [6] zusammengestellt und diese Erklärung wird durch [7] genehmigt.

EL - Η παρούσα δήλωση εκδίδεται στις [1] υπό την αποκλειστική ευθύνη του κατασκευαστή [2]. Το αντικείμενο της δήλωσης [3 Μοηηλα/Κλίμαχα Αύξονηος Αριθμού] συμμορφώνεται με τις διατάξεις της οδηγίας [4], όπως φαίνεται από τη συμμόρφωση με το εναρμονισμένο πρότυπο [5]. Η τεχνική τεκμηρίωση, διαθέσιμη στην πιο πάνω διεύθυνση [2], έχει συνταχθεί από [6] και η παρούσα δήλωση εγκρίνεται από [7].

ES - Esta declaración se publica este día [1] bajo la responsabilidad exclusiva del fabricante [2]. El objeto de la declaración [3 Modelo/Gama de No. de Serie] se ajusta a las disposiciones de la(s) directiva(s) [4], tal y como muestra el cumplimiento de la(s) norma(s) armonizada(s) [5]. La documentación técnica, disponible en la dirección anterior [2], ha sido compilada por [6] y esta declaración ha sido aprobada por [7].

ET - Käesolev deklaratsioon on väljastatud sel kuupäeval [1] tootja ainuvastutusel [2]. Deklaratsiooni objekt [3 Mudel/Seerianumbrite vahemik] vastab direktiivi(de)le [4], nagu näitab vastavus ühtlustatud standardi(tele) [5]. Ülaloodud aadressil [2] kättesaadava tehnilise dokumentatsiooni on koostanud [6] ja käesoleva deklaratsiooni on kinnitanud [7].

FI - Tämä vakuutus on annettu tänä päivänä [1] yksinomaan valmistajan [2] vastuulla. Vakuutuksen [3 Mallia/Sarjanumero] kohde on yhden tai useamman direktiivin [4] vaatimusten mukainen, mikä osoitetaan yhdenmukaistettujen standardien [5] täyttymisellä. Edellä mainitusta osoitteesta [2] saatavilla olevan teknisen dokumentaation on laatinut [6], ja tämän vakuutuksen on hyväksynyt [7].

FR - Cette déclaration est publiée en ce jour [1] sous la seule responsabilité du fabricant [2]. L'objet de la déclaration [3 Modele/No. Serie] est conforme aux dispositions de la ou des directives [4] comme indiqué par la conformité à la ou aux normes harmonisées [5]. La documentation technique, disponible à l'adresse ci-dessus [2], est compilée par [6] et cette déclaration est approuvée par [7].

HR - Ova izjava izdana je dana [1] pod isključivom odgovornošću proizvođača [2]. Predmet ove izjave [3 Model/opseg serijskog broja] sukladan je odredbama direktive/a [4] kako je zahtjeva usklađenost s usklađenim standardom(ima) [5]. Tehničku dokumentaciju, koja je dostupna na adresi [2], izradio je [6] te je ovu izjavu odobrio [7].

HU - A nyilatkozatot ma, [1]-i dátummal állították ki, a gyártó [(2)] kizárólagos felelősségére. A [5] harmonizált szabvány(ok)nak való megfelelés okán, a [3 Modell/Gyártási szám-tartomány] nyilatkozat tárgya megfelel a(z) [4] irányelv(ek)ben foglaltaknak. A műszaki dokumentációt, amely a fenti címen érhető el [2], [6] állította össze. E nyilatkozatot [7] hagyta jóvá.

IT - Questa dichiarazione è rilasciata in questo giorno [1] sotto la sola responsabilità del fabbricante [2]. L'oggetto della dichiarazione [3 Modello/Numeri di Serie] è conforme alle disposizioni della direttiva/delle direttive [4] come mostrato dalla conformità con la norma armonizzata/le norme armonizzate [5]. La documentazione tecnica, disponibile all'indirizzo di cui sopra [2], viene compilata da [6] e questa dichiarazione è approvata da [7].

LT - Ši deklaracija parengta [1] d., už ją atsakingas tik gamintojas „[2]“. Deklaracijos [3 Modeliai/Serijos numeriai] objektas atitinka direktyvos (-ų) [4] nuostatas, remiantis darniojo (-ių) standarto (-ų) [5] atitiktimi. Techninius dokumentus, kuriuos galima rasti anksčiau pateiktu adresu [2], parengė [6], o šią deklaraciją patvirtino [7].

LV - Ši deklarācija ir izsniegta šajā dienā [1] ar pilnīgu ražotāja atbildību [2]. Deklarācijas [3 Modelis/Sērijas numuru diapazons] mērķis atbilst direktīvas(u) [4] noteikumiem, kā norāda atbilstība saskaņotajam(iem) standartam(iem) [5]. Tehniskā dokumentācija, kas ir pieejama iepriekš norādītajā adresē [2], ir [6] veidota, un šo deklarāciju apstiprināja [7].

NL - Deze verklaring wordt afgegeven op deze dag [1] onder de uitsluitende verantwoordelijkheid van de fabrikant [2]. Het doel van de verklaring [3 Model/Serienummers] is in overeenstemming met de bepalingen van de richtlijn(en) [4] zoals weergegeven door de overeenstemming met de geharmoniseerde norm(en) [5]. De technische documentatie beschikbaar op bovenstaand adres [2], is samengesteld door [6] en deze aangie is goedgekeurd door [7].

NO - Denne erklæringen er utgitt på denne dagen [1] og er produsentens [2] eneansvar. Erklæringens [3 Modell/Serienr] formål er overholdelse av direktivets/direktivenes [4] regulering(er), som vist ved samsvar med den/de harmoniserte standarden(e) [5]. Den tekniske dokumentasjonen, tilgjengelig fra adressen [2] over, er innhentet av [6] og denne erklæringen er godkjent av [7].

PL - Niniejsza deklaracja została wydana w dniu [1] na wyłączną odpowiedzialność producenta [2]. Przedmiot deklaracji [3 Model/O numerach seryjnych] jest zgodny z przepisami dyrektyw(y) [4], o czym świadczy zgodność z normą(-ami) zharmonizowaną (-ymi) [5]. Dokumentacja techniczna, dostępna pod adresem [2], została sporządzona przez [6], a niniejszą deklarację zatwierdził [7].

PT - Esta declaração é emitida neste dia [1] mediante responsabilidade exclusiva do fabricante [2]. O objeto da declaração [Modelo 3/Intervalo de números de série] está em conformidade com o disposto na(s) diretiva(s) [4], conforme indicado pelo cumprimento das normas harmonizadas [5]. A documentação técnica, disponível no endereço acima [2], foi reunida por [6] e a presente declaração foi aprovada por [7].

RO - Această declarație este emisă la data de [1] sub responsabilitatea producătorului [2]. Obiectul declarației [3 Model/Domeniu număr serie] este în conformitate cu dispozițiile din directiva(directivele) [4] după cum este indicat prin conformitatea cu standardul(standardele) armonizat(armonizate) [5]. Documentația tehnică disponibilă la adresa de mai sus [2] este alcătuită de [6] și această declarație este aprobată de [7].

SK - Toto vyhlásenie je vydané dňa [1] na výslovnú zodpovednosť výrobcu [2]. Predmet vyhlásenia [3 Model/Výrobné číslo] je v súlade s ustanoveniami smernice (smerníc) [4], ako sa uvádza v zhode s harmonizovanou normou (normami) [5]. Technická dokumentácia, dostupná na vyššie uvedenej adrese [2], je zostavená [6] a toto vyhlásenie je schválené [7].

SL - Ta izjava je izdana na ta dan [1] z izključno odgovornostjo proizvajalca [2]. Predmet izjave [3 Model/Območje serijskih števil] je skladen z določbami direktive/direktiv [4], kot dokazuje skladnost s harmoniziranimi standardi [5]. Tehnično dokumentacijo, ki je na voljo na zgornjem naslovu [2], je pripravil [6], izjavo pa je odobril [7].

SV - Denna deklaration utfärdas idag [1] under tillverkarens [2] eget ansvar. Deklarationens syfte [3 Modell/Serienummer, mellan] följer bestämmelserna i direktivet/direktiven [4] enligt överensstämmelse med de harmoniserade standarderna [5]. Den tekniska dokumentationen, som är tillgänglig på ovanstående adress [2], är sammanställd av [6] och denna deklaration är godkänd av [7].

Year of Manufacture

Figure 1. Year of Manufacture Code

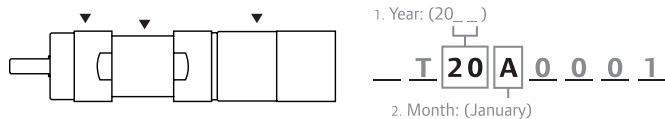


Table 2. Year of Manufacture by Language

	1	2		1	2
EN	Year (20__)	Month: A=January B=February C=March D=April E=May F=June G=July H=August J=September K=October L=November M=December	IT	Anno (20__)	Mese: A=Gennaio B=Febbraio C=Marzo D=Aprile E=Maggio F=Giugno G=Luglio H=Agosto J=Settembre K=Ottobre L=Novembre M=Dicembre
BG	Година (20__)	Месец: A=Януари B=Февруари C=Март D=Април E=Май F=Юни G=Юли H=Август J=Септември K=Октомври L=Ноември M=Декември	LT	Metais (20__)	Sausio mnes: A=Sausis B=Vasaris C=Kovas D=Balandis E=Gegužė F=Birželis G=Liepa H=Rugpjūtis J=Rugsėjis K=Spalis L=Lapkritis M=Gruodis
CS	Rok (20__)	Měsíc: A=Leden B=Únor C=Březen D=Duben E=Květen F=Červen G=Červenec H=Srpen J=Září K=Říjen L=Listopad M=Prosinec	LV	Year (20__)	Month: A=Janvaris B=Februāris C=Marts D=Aprīlis E=Maijs F=Jūnijs G=Jūlijs H=Augusts J=Septembris K=Oktobris L=Novembris M=Decembris
DA	År (20__)	Måned: A=Januar B=Februar C=Marts D=April E=Maj F=Juni G=Juli H=August J=September K=Oktober L=November M=December	NL	Jaar (20__)	Maand: A=Januari B=Februari C=Maart D=April E=Mei F=Juni G=Juli H=Augustus J=September K=Oktober L=November M=December
DE	Jahr (20__)	Monat: A=Januar B=Februar C=März D=April E=Mai F=Juni G=Juli H=August J=September K=Oktober L=November M=Dezember	NO	År (20__)	Måned: A=Januar B=Februar C=Mars D=April E=Mai F=Juni G=Juli H=August J=September K=Oktober L=November M=Desember
EL	Έτος (20__)	Μήνας: A=Ιανουάριος B=Φεβρουάριος C=Βαδίζω D=Απρίλιος E=Μάιος F=Ιούνιος G=Ιούλιος H=Αύγουστος J=Σεπτέμβριος K=Οκτώβριος L=Νοέμβριος M=Δεκέμβριος	PL	Rok (20__)	Miesiąc: A=Styczeń B=luty C=marzec D=kwiecień E=maj F=czerwiec G=lipiec H=sierpień J=wrzesień K=październik L=listopad M=grudzień
ES	Año (20__)	Mes: A=Enero B=Febrero C=Marzo D=Abril E=Mayo F=Junio G=Julio H=Agosto J=Septiembre K=Octubre L=Noviembre M=Diciembre	PT	Ano (20__)	Mês: A=Janeiro B=Fevereiro C=Marcha D=Abril E=Maio F=Junho G=Julho H=Agosto J=Setembro K=Outubro L=Novembro M=Dezembro
ET	Aasta (20__)	Kuu: A=Jaanuar B=Veebruar C=Märts D=Aprill E=Mai F=Juuni G=Juuli H=August J=September K=Oktoober L=November M=Detsember	RO	An (20__)	Luna: A=ianuarie B=februarie C=Martie D=Aprilie E=Mai F=Iunie G=Iulie H=August J=Septembrie K=Octombrie L=Noiembrie M=Decembrie
FI	Vuosi (20__)	Kuukausi: A=Tammikuu B=Helmikuu C=Maaliskuu D=Huhtikuu E=Toukokuu F=Kesäkuu G=Heinäkuu H=Elokuu J=Syyskuu K=Lokakuu L=Marraskuu M=Joulukuu	SL	Leto (20__)	Mesec: A=Januar B=februar C=marec D=april E=maj F=junij G=julij H=avgust J=september K=oktober L=november M=december
FR	Année (20__)	Mois: A=Janvier B=Février C=Mars D=Avril E=Mai F=Juin G=Juillet H=Août J=Septembre K=Octobre L=Novembre M=Décembre	SK	Rok (20__)	Mesiac: A=Január B=Február C=Marec D=Apríl E=Máj F=Jún G=Júl H=August J=September K=Október L=November M=December
HR	Godine (20__)	Mjesec: A=Siječanj B=Veljača C=Ožujak D=Travanj E=Svibanj F=Lipanj G=Srpanj H=Kolovoz J=Rujan K=Listopad L=Studeni M=Prosinac	SV	År (20__)	Månad: A=Januari B=Februari C=Mars D=April E=Maj F=Juni G=Juli H=Augusti J=September K=Oktober L=November M=December
HU	Év (20__)	Hónap: A=Január B=Február C=Március D=Április E=Május F=Június G=Július H=Augusztus J=Szeptember K=Október L=November M=December			

UK CA Declaration of Incorporation

Table 1. Declaration of Incorporation Requirement

1	Date of Issue	November 2023
2	Manufacturer Name and Address	Ingersoll Rand Services Ltd. / Leach PI, Preston PR5 8AS
3	Object of Declaration	Rotary Air Motor (model) 1801(), 1841(), 3800(), 3840(), 4800(), 4840(), 92R(), M002(), M004(), M007(), MRV(), MRV-A(), MVA(), M0V(), 17R(), 34R(), 48R(), 822(), 75(), 78(), 827(), 820(), 821(), SM1(), SM1-A(), SM2(), SM2-A(), SM4(), SM4-A(), SM6(), SM6-A(), SM8(), and SM8-A() Serial Number Range: SP23L010001 --> SP30M319999 SHM23L010001 --> SHM30M319999 F23L010001 --> F30M319999 TE23L010001 --> TE30M319999 Place Model Number & Serial Number here for ATEX PRODUCTS ONLY.
4	Directives(s) Conformity	Supply of Machinery (Safety) Regulations 2008, Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016
5	Standard(s) Compliance	BS EN ISO 12100:2010, BS EN 1127-1:2011, BS EN ISO 80079-36:2016, BS EN ISO 80079-37:2016, BS EN ISO 60079-0, and BSEN ISO 4414:2010
6	Tech File Author Name (UK) Title/Position	Dean Anderson Services Leader, EMEA 
7	Declaration Author Name Title/Position	Randall Ricker Engineering Lead, Engine Starters and Air Motors 

EN - This declaration is issued on this day [1] under the sole responsibility of the manufacturer [2]. The object of the declaration [3 Model/Serial Number Range] is in conformity with the provisions of the directive(s) [4] as shown by compliance with the harmonized standard(s) [5]. The technical documentation, available at the above address [2], is compiled by [6] and this declaration is approved by [7].

Year of Manufacture

Figure 1. Year of Manufacture Code

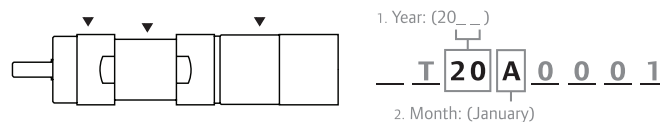


Table 2. Year of Manufacture by Language

1	2
EN	Year (20__)
	Month: A=January B=February C=March D=April E=May F=June G=July H=August J=September K=October L=November M=December

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